WESTSIDE MULTI-MODAL TRANSIT CENTER

123 N. MEDINA ST
SAN ANTONIO, TX 78207

65% Documents
ISSUED FOR REVIEW

VIA METROPOLITAN TRANSIT
800 W. MYRTLE, SAN ANTONIO, TEXAS 78212

PARSONS JOB # 445738

JUNE 25, 2010

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LIST OF ARCHITECTURAL ABBREVIATIONS

A	A.F.F.	ABOVE FINISHED FLOOR
	A.D.	ACCESS DOOR
	A.P.	ACCESS PANEL
	ACOUST.	ACOUSTICAL
	ADJ.	ADJUSTABLE
	ALT.	ALTERNATE
	ALUM.	ALUMINUM
	APPROX.	APPROXIMATE
	ANOD.	ANODIZED
	ARCH.	ARCHITECTURAL
	ASPH.	ASPHALT
	ASSY.	ASSEMBLY
	ATT.	ATTENUATION
	@	AT
B	BM.	BEAM
	BET.	BETWEEN
	BIT.	BITUMINOUS
	BLK.	BLOCK
	BD.	BOARD
	BRKT.	BRACKET
	BLDG.	BUILDING
	B.U.R.	BUILT UP ROOF
C	CAB.	CABINET
	CPT.	CARPET
	C.I.P.	CAST IN PLACE
	C.I.	CAST IRON
	CLG.	CEILING
	CEM.	CEMENT
	CTR.	CENTER
	C.L.	CENTERLINE
	CER.	CERAMIC
	C.T.	CERAMIC TILE
	C.G.	CORNER GUARD
	CHAN.	CHANNEL
	C.O.	CLEAN OUT
	COL.	COLUMN
	CONC.	CONCRETE
	C.M.U.	CONC. MAS. UNIT
	CONN.	CONNECTION
	CONST.	CONSTRUCTION
	C.J.	CONTROL JOINT
	CONT.	CONTINUOUS
	CSK.	COUNTERSUNK
	CU.	CUBIC
D	DEG. or °	DEGREE(S)
	DEMO.	DEMOLISH
	DEPT.	DEPARTMENT
	DET.	DETAIL
	DIAG.	DIAGONAL
	DIA. or Ø	DIAMETER
	DIM.	DIMENSION
	DISP.	DISPENSER
	DR.	DOOR
	DBL.	DOUBLE
	DN.	DOWN
	DS.	DOWNSPOUT
	DWR.	DRAWER
	DWG.	DRAWING
	D.F.	DRINKING FOUNTAIN
E	EA.	EACH
	E.	EAST
	ELECT.	ELECTRIC
	E.P.	ELECTRIC PANEL
	ELEV.	ELEVATION
	ENCL.	ENCLOSURE
	EQ.	EQUAL
	EQUIP.	EQUIPMENT
	EXH.	EXHAUST
	EXIST.	EXISTING
	EXP.	EXPANSION
	E.J.	EXPANSION JOINT
	EXT.	EXTERIOR
F	F.O.C.	FACE OF CONCRETE
	F.O.F.	FACE OF FRAMING
	F.C.U.	FAN COIL UNIT
	FIN.	FINISH
	F.E.	FIRE EXTINGUISHER
	F.E.C.	FIRE EXTINGUISHER CABINET
	F.H.C.	FIRE HOSE CABINET
	FL'G.	FLOORING
	FL.	FLOOR
	F.D.	FLOOR DRAIN
	FL. MT'D.	FLOOR MOUNTED
	FLOUR.	FLOURESCENT
	FT.	FOOT OR FEET
	FT'G.	FOOTING
	FND.	FOUNDATION
	FR.	FRAME
	FURR.	FURRING
	FUT.	FUTURE
G	GALV.	GALVANIZED
	G.I.	GALVANIZED IRON
	GA.	GAUGE
	GEN.	GENERAL
	G.C.	GENERAL CONTRACTOR
	GL.	GLASS
	G.B.	GRAB BAR
	GR.	GRADE
	GND.	GROUND
	GYP.	GYPSUM
	GYP. BD.	GYPSUM BOARD
H	HCP.	HANDICAP
	HD'WD.	HARDWOOD
	HD.	HEAD
	HT.	HEIGHT
	H. PT.	HIGH POINT
	H.C.	HOLLOW CORE
	H.M.	HOLLOW METAL
	HOR.	HORIZONTAL
	H.B.	HOSE BIBB
	HR.	HOUR
I	IN.	INCH
	INCL.	INCLUDE
	INSUL.	INSULATE
	INT.	INTERIOR
	I.D.	INSIDE DIAMETER
J	JT.	JOINT
K	K.O.	KNOCK OUT
L	LAM.	LAMINATE
	LAV.	LAVATORY
	L.H.	LEFT HAND(ED)
	LT.	LIGHT
	LT'WT.	LIGHTWEIGHT
	L.F.	LINEAR FEET
	L. PT.	LOW POINT
	LB.	POUND
M	MACH.	MACHINE
	M.H.	MAN HOLE
	MAN.	MANUAL
	MFG'R.	MANUFACTURER
	MAS.	MASONRY
	M.O.	MASONRY OPENING
	M.R.	MOISTURE RESISTANT
	MAT.	MATERIAL
	MAX.	MAXIMUM
	MECH.	MECHANICAL
	M.E.P.	MECHANICAL/ELECTICAL/ PLUMBING
	MET.	METAL
	MM.	MILLIMETER
	MIN.	MINIMUM
	MISC.	MISCELLANEOUS
	MOD.	MODIFIED
	MLD'G.	MOLDING
	MTD.	MOUNTED
	MNT'G.	MOUNTING
	MULL.	MULLION
N	NAT.	NATURAL
	NOM.	NOMINAL
	N.	NORTH
	N/A	NOT APPLICABLE
	N.I.C.	NOT IN CONTRACT
	N.T.S.	NOT TO SCALE
	NO. or #	NUMBER
O	O.C.	ON CENTER
	OPN'G.	OPENING
	OPP.	OPPOSITE
	OPP. H.	OPPOSITE HAND
	OA.	OVERALL
	O.D.	OUTSIDE DIAMETER
	O.H.	OVERHEAD
	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
	O.F.O. I.	OWNER FURNISHED AND INSTALLED
P	PNT.	PAINT
	PR.	PAIR
	P.T.D.	PAPER TOWEL DISPENSER
	P.T.D.R.	PAPER TOWEL DISPENSER & RECEPTACLE
	P. BD.	PARTICLE BOARD
	PART.	PARTITION
	PLAS.	PLASTER
	P. LAM.	PLASTIC LAMINATE
	PL.	PLATE
	PLY'WD.	PLYWOOD
	PT.	POINT
	POL.	POLISHED
	P.S.F.	LB. PER SQ. FOOT
	P.S.I.	LB. PER SQ. INCH
	PVC.	POLYVINYL CHLORIDE
	PROP.	PROPERTY
Q	QT'Y.	QUANTITY
	Q.T.	QUARRY TILE
R	RAD.	RADIUS
	RE:	REFER or REFERENCE
	REFL.	REFLECTED
	REG.	REGISTER
	REINF.	REINFORCED
	REQ'D.	REQUIRED
	R.A.	RETURN AIR
	REV.	REVISED or REVISION
	R.O.W.	RIGHT OF WAY
	R.H.	RIGHT HAND(ED)
	R.	RISER
	R.D.	ROOF DRAIN
	RM.	ROOM
	R.O.	ROUGH OPENING
S	S.N.D.	SANITARY NAPKIN DISP.
	S.N.D.R.	SANITARY NAPKIN DISPOSAL & RECEPTACLE
	SCHED.	SCHEDULE
	SECT.	SECTION
	SERV.	SERVICE
	SHT.	SHEET
	S. & R.	SHELF & ROD
	SIM.	SIMILAR
	S.D	SOAP DISPENSER
	S.C.	SOLID CORE
	S.	SOUTH
	SPEC.	SPECIFICATION
	SQ.	SQUARE
	S.S.	STAINLESS STEEL
	STD.	STANDARD
	STL.	STEEL
	STRUCT.	STRUCTURAL
	S.A.	SUPPLY AIR
	SUSP.	SUSPEND(ED)
T	TEL.	TELEPHONE
	T.V.	TELEVISION
	TEMP.	TEMPERATURE
	T.C.	TERRA COTTA
	TERR.	TERRAZZO
	THK.	THICK
	THRESH.	THRESHHOLD
	T.T.D.	TOILET TISSUE DISPENSER
	T.P.D.	TOILET PAPER DISPENSER
	T.O.B.	TOP OF BEAM
	T.O.C.	TOP OF CURB
	T.O.P.	TOP OF PAVING
	T.O.SL.	TOP OF SLAB
	T.O. STL.	TOP OF STEEL
	T.O.W.	TOP OF WALL
	T & G	TONGUE & GROOVE
	T.B.	TOWEL BAR
	T.H.	TOWEL HOOK
	T.	TREAD
	TRT'D.	TREATED
	TYP.	TYPICAL
U	UNFIN.	UNFINISHED
	U.O.N.	UNLESS OTHERWISE NOTED
	UR.	URINAL
V	V.B.	VAPOR BARRIER
	VAR.	VARIES
	V.T.R.	VENT THROUGH ROOF
	VERT.	VERTICAL
	V.C.T.	VINYL COMPOSITION TILE
	V.W.C.	VINYL WALL COVERING
W	W.T.W.	WALL TO WALL
	W.H.	WALL HUNG
	W.C.	WATER CLOSET
	W.R.	WATER RESISTANT
	W.P.	WATER PROOF(ING)
	WT.	WEIGHT
	W.	WEST
	W. CH.	WHEEL CHAIR
	WDW.	WINDOW
	W.G.	WIRE GLASS
	w/	WITH
	WWF.	WOVEN WIRE FABRIC
	WD.	WOOD
	W.P.	WORK POINT
	W.I.	WROUGHT IRON
Y	YD.	YARD

NOTE:
NOT ALL OF THESE ARCHITECTURAL ABBREVIATIONS MAY BE USED, AND MAY NOT BE THE SAME AS USED BY THE OTHER DISCIPLINES.

SEAL

NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.
HAL E. LYNCH
TEXAS ARCHITECT
13676

6/24/2010 4:57:27 PM

VIA primo
WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	65% Documents	06-25-10			

DRAWN BY AM
DESIGNED BY AM
CHECKED BY HL
PROJECT MGR.

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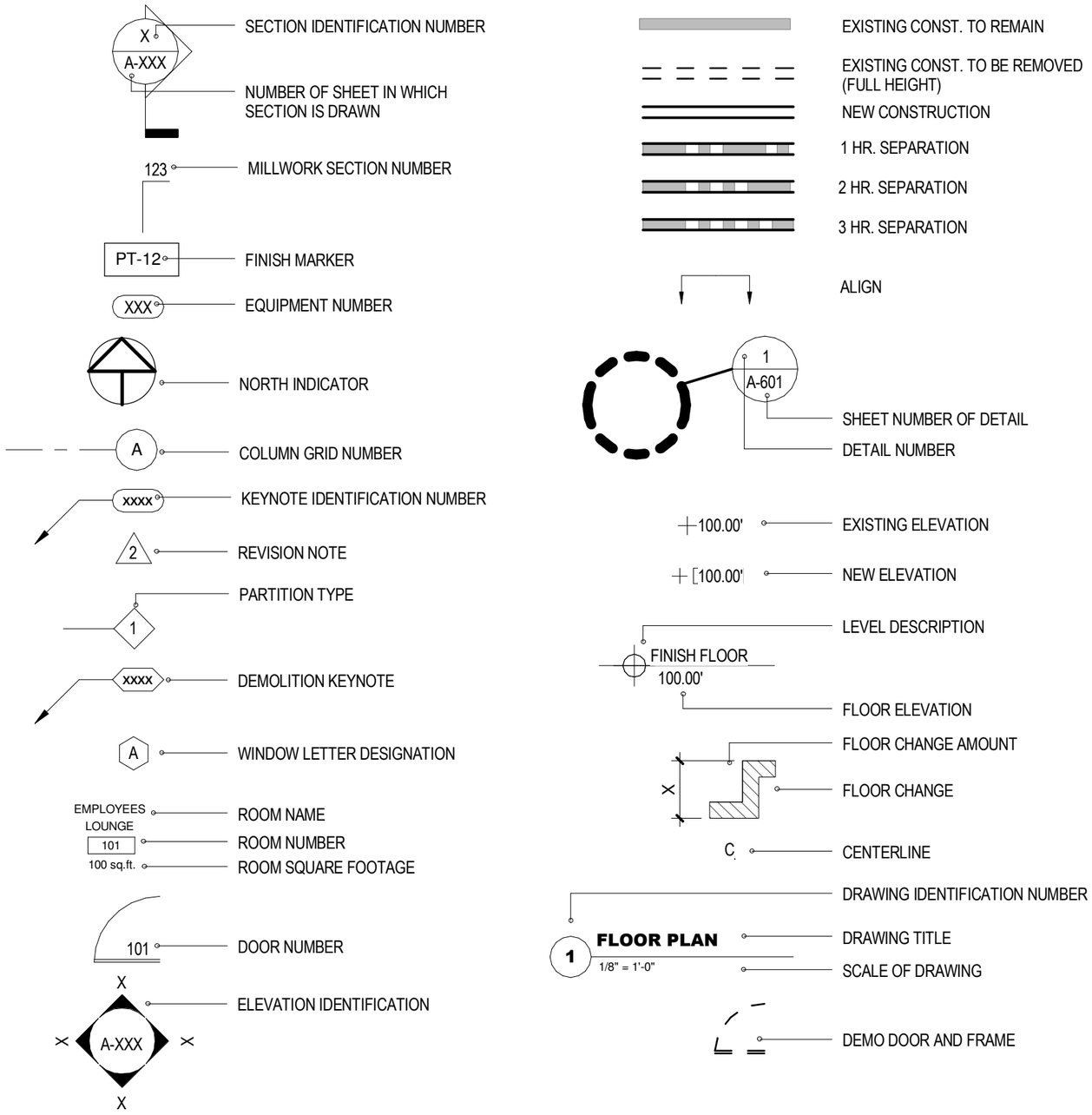
PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
ARCHITECTURAL ABBREVIATIONS
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. **A-001**
REV. A

ARCHITECTURAL LEGEND



GENERAL NOTES

1. DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION UNLESS SEALED, SIGNED, AND ISSUED FOR CONSTRUCTION.

2. CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH APPLICABLE CODES, REGULATIONS, ORDINANCES AND STANDARDS OF THE LOCAL BUILDING CODE AUTHORITY. CONTRACTOR SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS (TAS). DIRECT ALL QUESTIONS REGARDING SUCH COMPLIANCE TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION. NOTIFY ARCHITECT OF ANY VARIANCE WITH CODES IN FORCE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.

3. ALL DRAWINGS HEREIN ARE PREPARED WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF PROJECT DOCUMENTATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF UTILITIES BEFORE STARTING CONSTRUCTION. REFER TO CIVIL AND MEP FOR UTILITY DEMOLITION WORK.

4. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS AND SHALL BRING OMISSIONS OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IN THE CASE OF CONFLICTS BETWEEN DRAWINGS AND NOTES ON DRAWINGS, IT SHALL BE ASSUMED THAT THE STRICTEST CONDITION OR REQUIREMENT HAS BEEN INCLUDED IN THE COST AND SCOPE OF WORK AND SHALL APPLY TO THE QUESTIONED CONDITION.

5. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY QUESTIONS OR DISCREPENCIES PRIOR TO BEGINNING THE WORK IN QUESTION.

6. ALL WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL REFERENCES TO THE "CONTRACTOR" INCLUDE THE GENERAL CONTRACTOR AND ITS SUBCONTRACTORS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES, SAFETY MEASURES, AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, SUBCONTRACTORS' AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE GENERAL CONTRACTOR. THE ARCHITECT SHALL NOT BE HELD RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS CAUSED BY THE CONTRACTOR.

7. THE CONTRACTOR SHALL OBTAIN AND PAY FEES FOR ALL NECESSARY PERMITS, LICENSES, CERTIFICATES, AND TESTING.

8. ISSUE COMPLETE SETS OF DOCUMENTS TO EACH SUBCONTRACTOR FOR DESCRIPTION OF SCOPE AND COORDINATION OF WORK.

9. THE WORK AREA IS TO BE KEPT CLEAN AND ORDERLY AT ALL TIMES. REFUSE AND DEBRIS SHALL BE REMOVED ON A DAILY BASIS.

10. INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

11. ALL DIMENSIONS ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL OR FACE OF CERAMIC TILE UNLESS OTHERWISE NOTED. NOTIFY ARCHITECT OF ANY DISCREPANCY IN DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION.

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PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
ARCHITECTURAL LEGEND AND NOTES

65% DOCUMENTS
JUNE 25, 2010

DRAWING NO. A-002
REV. A

BUILDING GROSS S.F.

FIRST FLOOR GROSS SF:
14,493 SF

SECOND FLOOR GROSS SF:
15,127 SF

TOTAL GROSS SF:
29,620 SF

STANDARDS

- IBC 2006
- ASHRAE/IESNA STANDARD 90.1
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
- TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR), ELIMINATION OF ARCHITECTURAL BARRIERS ACT, ARTICLE 9102, TEXAS CIVIL STATUTES
- AMERICANS WITH DISABILITIES ACT (ADA), 28 CFR PART 35 NON-DISCRIMINATION ON THE BASIS OF DISABILITY IN STATE AND LOCAL GOVERNMENT SERVICES, FINAL RULE, AS PUBLISHED IN THE FEDERAL REGISTER JULY 23, 2004
- I.C.C. ELECTRICAL CODE
- ENERGY CONSERVATION DESIGN STANDARDS FOR NEW STATE BUILDINGS (CERTIFICATION OF COMPLIANCE IS REQUIRED BEFORE THE START OF CONSTRUCTION)
- TIA/EIA COMMERCIAL AND RESIDENTIAL BUILDING CABLING SYSTEMS STANDARDS
- ASTM STANDARDS

CODE SUMMARY

CODE REFERENCES:
2006 INTERNATIONAL BUILDING, FIRE, MECHANICAL AND PLUMBING CODES, ALL APPLICABLE PERTINENT BEXAR COUNTY BUILDING CODES, AND MISCELLANEOUS M.E.P. REQUIREMENTS

OCCUPANCY CLASSIFICATION:
MIXED USE, NONSEPARATED OCCUPANCIES
B, BUSINESS
A-3, ASSEMBLY, WAITING AREA IN TRANSPORTATION TERMINAL

TYPE OF CONSTRUCTION:
_____

ATRIUM SMOKE CONTROL:
NOT REQUIRED AS PER 404.4

ATRIUM ENCLOSURE:
NOT REQUIRED AS PER 404.5

AUTOMATIC SPRINKLER SYSTEM:
EXISTING

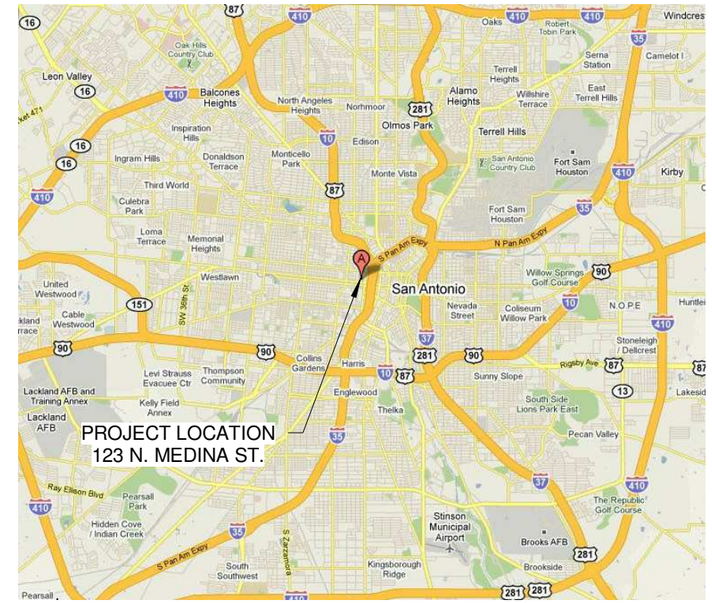
STANDPIPE:
NOT REQUIRED AS PER 905.3.2

PORTABLE FIRE EXTINGUISHERS:
FIRST FLOOR: 5 REQUIRED, 5 PROVIDED
SECOND FLOOR: 5 REQUIRED, 5 PROVIDED

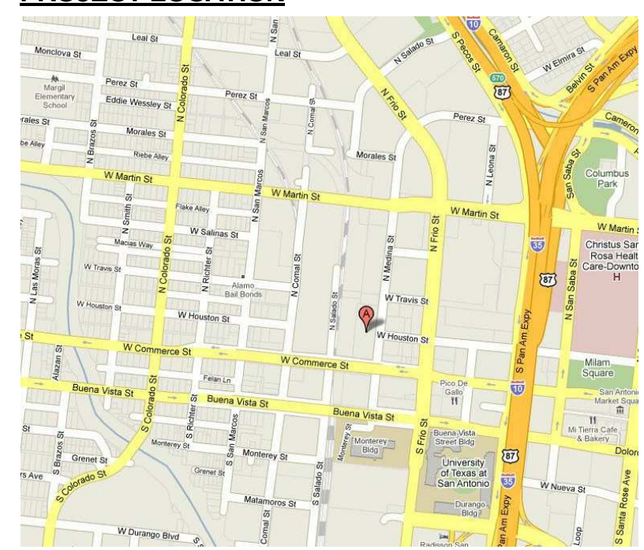
FIRE ALARM AND PROTECTION SYSTEM:
PROVIDED AS EXISTING

FIRE RESISTANCE RATING REQUIREMENTS:
STRUCTURAL FRAME- 0 HR
EXTERIOR BEARING WALLS- 0 HR
INTERIOR BEARING WALLS- 0 HR
EXTERIOR NONBEARING WALLS- 0 HR
INTERIOR NONBEARING WALLS- 0 HR
FLOOR CONSTRUCTION- 0 HR
ROOF CONSTRUCTION- 0 HR
CORRIDORS- 0 HR

CITY MAP



PROJECT LOCATION



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DRAWING TITLE
GENERAL INFORMATION

65% DOCUMENTS — JUNE 25, 2010
DRAWING NO. **A-003** REV. A

GENERAL ARCHITECTURE SHEET LIST

A-000	COVER SHEET
A-001	ARCHITECTURAL ABBREVIATIONS
A-002	ARCHITECTURAL LEGEND AND NOTES
A-003	GENERAL INFORMATION
A-004	SHEET LIST
A-005	ACCESSIBILITY GENERAL NOTES- SHEET 1
A-006	ACCESSIBILITY GENERAL NOTES- SHEET 2
A-007	ACCESSIBILITY GENERAL NOTES- SHEET 3
A-008	ACCESSIBILITY DIAGRAMS- SHEET 1
A-009	ACCESSIBILITY DIAGRAMS- SHEET 2
A-010	ACCESSIBILITY DIAGRAMS- SHEET 3
A-011	ACCESSIBILITY DIAGRAMS- SHEET 4

CIVIL SHEET LIST

C-101	PROJECT LAYOUT
C-102	SUMMARY OF CIVIL QUANTITIES
C-103	TRAFFIC CONTROL AND SEQUENCE OF WORK
C-104	SWPPP
C-105	REMOVAL PLAN SHEET 1 OF 3
C-106	REMOVAL PLAN SHEET 2 OF 3
C-107	REMOVAL PLAN SHEET 3 OF 3
C-108	GEOMETRIC CONTROL
C-109	MULTIMODAL CENTER PLAN LAYOUT SHEET 1 OF 2
C-110	MULTIMODAL CENTER PLAN LAYOUT SHEET 2 OF 2
C-111	MULTIMODAL CENTER SECTIONS
C-112	GRADING PLAN
C-113	BUENA VISTA STREET PLAN AND PROFILE STA 10+00 TO STA 14+00
C-114	BUENA VISTA STREET PLAN AND PROFILE STA 14+00.00 TO 16+81.29
C-115	BUENA VISTA STREET PLAN AND PROFILE STA 17+00.00 TO STA 21+23.06
C-116	BUENA VISTA STREET PLAN AND PROFILE STA 11+00 TO STA 14+72.29
C-117	EMPLOYEE PARKING LOT / LAREDO INTERSECTION PLAN
C-118	PAVING DETAILS
C-119	UTILITY PLAN
C-201	DRAINAGE AREA LAYOUT
C-202	DRAINAGE CALCULATIONS
C-203	DRAINAGE PLAN LINES C & D
C-204	DRAINAGE PROFILE LINE C
C-205	DRAINAGE PROFILE LINE D
C-206	DRAINAGE PLAN & PROFILE LINE BV
C-207	DRAINAGE MISCELLANEOUS DETAILS
C-301	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE PLAN & ELEVATION
C-302	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE TYPICAL SECTIONS
C-303	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE EXISTING RAILING DEMOLITION
C-304	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE EXISTING DECK REPAIR & PROCEDURES
C-305	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE EXISTING DECK REPAIR DETAILS
C-306	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE FENCE LAYOUT
C-307	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE FENCE DETAILS – 1
C-308	ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE FENCE DETAILS – 2
C-401	TRANSIT CENTER EXISTING SIGNING PLAN
C-402	PARKING LOT EXISTING SIGNING PLAN
C-403	BUENA VISTA STREET AT FRIO STREET EXISTING SIGNING PLAN
C-404	TRANSIT CENTER PROPOSED SIGNING AND STRIPING PLAN
C-405	PARKING LOT PROPOSED SIGNING AND STRIPING PLAN
C-406	BUENA VISTA STREET AT FRIO STREET PROPOSED SIGNING AND STRIPING PLAN
C-501	EXISTING TRAFFIC SIGNAL LAYOUT S. FRIO ST. AT BUENA VISTA ST.
C-502	PROPOSED TRAFFIC SIGNAL LAYOUT S. FRIO ST. AT BUENA VISTA ST.
C-503	PROPOSED TRAFFIC SIGNAL LAYOUT S. FRIO ST. AT BUENA VISTA ST.
C-504	PROPOSED TRAFFIC SIGNAL ELEVATIONS S. FRIO ST. AT BUENA VISTA ST.
C-505	BUS ONLY FLASHERS

LANDSCAPE SHEET LIST

L-001	TREE PRESERVATION PLAN- SHEET 1
L-002	TREE PRESERVATION PLAN- SHEET 2
L-101	TREE PRESERVATION TABLE
L-102	TREE PRESERVATION DETAILS
L-103	TREE PRESERVATION NOTES SHEET 1
L-104	TREE TRANSPLANT NOTES SHEET 2
L-201	PLANTING PLAN SHEET 1
L-202	PLANTING PLAN SHEET 2
L-301	PLANT LIST
L-302	PLANTING DETAILS
L-303	PLANTING NOTES SHEET 1
L-304	PLANTING NOTES SHEET 2
L-305	PLANTING NOTES SHEET 3
L-306	PLANTING NOTES SHEET 4
L-307	PLANTING NOTES SHEET 5
L-401	IRRIGATION PLAN SHEET 1
L-402	IRRIGATION PLAN SHEET 2
L-403	IRRIGATION LEGEND
L-404	IRRIGATION CONSTRUCTION NOTES
L-501	IRRIGATION DETAILS SHEET 1
L-502	IRRIGATION DETAILS SHEET 2
L-503	IRRIGATION DETAILS SHEET 3
L-504	IRRIGATION NOTES SHEET 1
L-505	IRRIGATION NOTES SHEET 2
L-506	IRRIGATION NOTES SHEET 3

STRUCTURAL SHEET LIST

S-000	GENERAL NOTES
S-101	1ST FLOOR DEMOLITION AND CONSTRUCTION PLAN
S-102	2ND FLOOR DEMOLITION AND CONSTRUCTION PLAN
S-103	ROOF DEMOLITION AND CONSTRUCTION
S-104	CONCRETE SLAB DETAIL
S-105	IN-LINE STATION FOUNDATION & CANOPY FRAMING PLAN
S-106	IN-LINE STATION ELEVATIONS

ARCHITECTURE SHEET LIST

A-012	1ST AND 2ND FLOOR EGRESS & OCCUPANCY PLANS
A-013	EXTENT OF INTERIOR WORK PLAN
AD-100	DEMO ARCHITECTURAL SITE PLAN
AD-201	1ST FLOOR DEMOLITION PLAN
AD-202	2ND FLOOR DEMOLITION PLAN
AD-211	1ST FLOOR DEMO REFLECTED CEILING PLAN
AD-212	2ND FLOOR DEMO REFLECTED CEILING PLAN
A-101	ARCHITECTURAL SITE PLAN
A-201	1ST FLOOR PLAN
A-202	2ND FLOOR PLAN
A-203	ENLARGED RESTROOM PLAN
A-204	ENLARGED PLANS- SHEET 1
A-205	ENLARGED PLAN- SHEET 2
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ED-102	ELECTRICAL SECOND FLOOR DEMOLITION

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ACCESSIBILITY GENERAL NOTES:

1. MINIMUM CLEAR WIDTH OF ACCESSIBLE ROUTE TO BE 36" WIDE.
2. RUNNING SLOPE SHALL NOT EXCEED 1:20. CROSS SLOPE SHALL NOT EXCEED 1:50.
3. 1/4" TO 1/2" CHANGES IN LEVEL REQUIRE EDGE TO BE BEVELLED WITH A SLOPE NO GREATER THAN 1:2.
4. THE HIGHEST OPERABLE PART OF CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED NO HIGHER THAN 3 FOOT 11 1/2" AND NO LOWER THAN 1 FOOT 3 1/2" ABOVE FINISHED FLOOR. THESE REQUIREMENTS SHALL APPLY TO CONTROLS AND OPERATING MECHANISIMS WHICH ARE EXPECTED TO BE OPERABLE BY OCCUPANTS, VISITORS, OR OTHER USERS OF A BUILDING OR FACILITY AND MAY INCLUDE, BUT ARE NOT LIMITED TO, THERMOSTATS, LIGHT SWITCHES, ALARM ACTIVATING DEVICES, VENTILATORS AND ELECTRICAL OUTLETS.
5. PROVIDE SOLID BLOCKING AT ALL WALL MOUNTED ACCESSORIES.

SPACE ALLOWANCES AND REACH RANGES

1. THE MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR PASSAGE SHALL BE 32" AT A POINT AND 36" CONTINUOUSLY.
2. THE MINIMUM WIDTH FOR TWO WHEELCHAIRS TO PASS IS 60".
3. THE MINIMUM SPACE REQUIRED FOR A STANDARD WHEELCHAIR TO MAKE A 180-DEGREE TURN IS A CLEAR SPACE OF 60" IN DIAMETER OR A T-SHAPED SPACE.

CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS

1. THE MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30"X48".
2. IF THE CLEAR FLOOR SPACE ONLY ALLOWS FORWARD APPROACH TO AN OBJECT, THE MAXIMUM HIGH FORWARD REACH ALLOWED SHALL BE 48". THE MINIMUM LOW FORWARD REACH IS 15".
3. IF THE CLEAR FLOOR SPACE ALLOWS PARALLEL APPROACH BY A PERSON IN A WHEELCHAIR, THE MAXIMUM HIGH SIDE REACH ALLOWED SHALL BE 54" AND THE LOW SIDE REACH SHALL BE NO LESS THAN 9" ABOVE THE FLOOR.

PROTRUDING OBJECTS

1. OBJECTS PROJECTING FROM WALLS (FOR EXAMPLE, TELEPHONES) WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27" ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE GROUND OR FINISHED FLOOR. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
2. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES, OR OTHER CIRCULATION SPACES SHALL HAVE 80 IN MINIMUM CLEAR HEAD ROOM.

GROUND AND FLOOR SURFACES

1. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES INCLUDING FLOORS, WALKS, RAMPS, STAIRS, AND CURB RAMPS, SHALL BE STABLE, FIRM, & SLIP-RESISTANT. SOFT OR LOOSE MATERIALS SUCH AS SAND, GRAVEL, BARK, MULCH OR WOOD CHIPS ARE NOT SUITABLE. COBBLESTONE AND OTHER IRREGULAR SURFACES HAVING A TEXTURE THAT CONSTITUTES AN OBSTACLE OR HAZARD, SUCH AS IMPROPERLY LAID FLAGSTONE, SHALL NOT BE A PART OF ACCESSIBLE ROUTES, SPACES AND ELEMENTS.
2. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP THAT COMPLIES.
3. IF CARPET OR CARPET TILE IS USED ON A GROUND OR FLOOR SURFACE, THEN IT SHALL BE SECURELY ATTACHED; HAVE A FIRM CUSHION, PAD, OR BACKING, OR NO CUSHION OR PAD; AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE THICKNESS SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND HAVE TRIM ALONG THE ENTIRE LENGTH OF THE EXPOSED EDGE.
4. IF GRATINGS ARE LOCATED IN WALKING SURFACES OR ALONG ACCESSIBLE ROUTES, THEN THEY SHALL HAVE SPACES NO GREATER THAN 1/2" WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEN THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

DOORS

1. DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" WITH THE DOOR OPEN 90 DEGREES, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP.
2. OPENINGS MORE THAN 24" IN DEPTH SHALL PROVIDE A CLEAR OPENING OF 36" MIN.
3. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4". IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2" FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
4. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.
5. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.
6. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
7. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
   A. EXTERIOR HINGED DOORS: 8 LBF
   B. INTERIOR HINGED DOORS: 5 LBF
   C. SLIDING OR FOLDING DOORS: 5 LBF
   THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT MAY HOLD THE DOOR IN A CLOSED POSITION.
8. IF AN AUTOMATIC DOOR IS USED, THEN IT SHALL COMPLY WITH ANSI/BHMA A156.10-1985. SLOWLY OPENING, LOW-POWERED, AUTOMATIC DOORS SHALL COMPLY WITH ANSI A156.19-1984. SUCH DOORS SHALL NOT OPEN TO BACK CHECK FASTER THAN 3 SECONDS AND SHALL REQUIRE NO MORE THAN 15 LBF (66.6N) TO STOP DOOR MOVEMENT. IF A POWER-ASSISTED DOOR IS USED, ITS DOOR-OPENING FORCE SHALL COMPLY WITH 4.13.11 AND ITS CLOSING SHALL CONFORM TO THE REQUIREMENTS IN ANSI A156.19-1984.

ENTRANCES

1. ENTRANCES SHALL BE CONNECTED BY AN ACCESSIBLE ROUTE TO PUBLIC TRANSPORTATION STOPS, TO ACCESSIBLE PARKING AND PASSENGER LOADING ZONES, AND TO PUBLIC STREETS OR SIDEWALKS IF AVAILABLE. THEY SHALL ALSO BE CONNECTED BY AN ACCESSIBLE ROUTE TO ALL ACCESSIBLE SPACES OR ELEMENTS WITHIN THE BUILDING OR FACILITY.
2. A SERVICE ENTRANCE SHALL NOT BE THE SOLE ACCESSIBLE ENTRANCE UNLESS IT IS THE ONLY ENTRANCE TO A BUILDING OR FACILITY (FOR EXAMPLE, IN A FACTORY OR GARAGE).

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RAMPS

1. THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION SHALL BE 1:12. THE MAXIMUM RISE FOR ANY RUN SHALL BE 30".
2. THE MINIMUM CLEAR WIDTH OF A RAMP 30 FEET OR LESS IN LENGTH SHALL BE 36". RAMPS MORE THAN 30 FEET IN LENGTH SHALL HAVE A MINIMUM CLEAR WIDTH OF 44".
3. RAMPS SHALL HAVE LEVEL LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP AND EACH RAMP RUN. LANDINGS SHALL HAVE THE FOLLOWING FEATURES:
   A. THE LANDING SHALL BE AT LEAST AS WIDE AS THE WIDTH OF THE RAMP RUN LEADING TO IT.
   B. THE LANDING LENGTH SHALL BE A MINIMUM OF 60" CLEAR.
   C. IF RAMPS CHANGE DIRECTION AT LANDINGS, THE MINIMUM LANDING SIZE SHALL BE 60" BY 60".
   D. IF A DOORWAY IS LOCATED AT A LANDING, THEN THE AREA IN FRONT OF THE DOORWAY SHALL COMPLY WITH REQUIREMENTS UNDER THE DOOR SECTION.
4. IF A RAMP RUN HAS A RISE GREATER THAN 6" OR A HORIZONTAL PROJECTION GREATER THAN 72", THEN IT SHALL HAVE HANDRAILS ON BOTH SIDES. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS OR ADJACENT TO SEATING IN ASSEMBLY AREAS. HANDRAILS SHALL HAVE THE FOLLOWING FEATURES:
   A. HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.
   B. IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" BEYOND THE TOP AND BOTTOM OF THE RAMP SEGMENT AND SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE.
   C. THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE 1 FOOT 1/2".
   D. GRIPPING SURFACES SHALL BE CONTINUOUS.
   E. TOP OF HANDRAIL GRIPPING SURFACES SHALL BE MOUNTED BETWEEN 35" ABOVE RAMP SURFACES.
   F. ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL OR POST.
   G. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

STAIRS

1. ON ANY GIVEN FLIGHT OF STAIRS, ALL STEPS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD WIDTHS. STAIR TREADS SHALL BE NO LESS THAN 11 IN WIDE, MEASURED FROM RISER TO RISER. OPEN RISERS ARE NOT PERMITTED.
2. THE UNDERSIDES OF NOSINGS SHALL NOT BE ABRUPT. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NO GREATER THAN 1/2 IN. RISERS SHALL BE SLOPED OR THE UNDERSIDE OF THE NOSING SHALL HAVE AN ANGLE NOT LESS THAN 60 DEGREES FROM THE HORIZONTAL. NOSINGS SHALL PROJECT NO MORE THAN 1 1/2".
3. STAIRWAYS SHALL HAVE HANDRAILS AT BOTH SIDES OF ALL STAIRS. HANDRAILS SHALL HAVE THE FOLLOWING FEATURES:
   A. HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES OF STAIRS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG STAIRS SHALL ALWAYS BE CONTINUOUS.
   B. IF HANDRAILS ARE NOT CONTINUOUS, THEY SHALL EXTEND AT LEAST 12" BEYOND THE TOP RISER AND AT LEAST 12" PLUS THE WIDTH OF ONE TREAD BEYOND THE BOTTOM RISER. AT THE TOP, THE EXTENSION SHALL BE PARALLEL WITH THE FLOOR OR GROUND SURFACE. AT THE BOTTOM, THE HANDRAIL SHALL CONTINUE TO SLOPE FOR A DISTANCE THE WIDTH OF ONE TREAD FROM THE BOTTOM RISER; THE REMAINDER OF THE EXTENSION SHALL BE HORIZONTAL.
   C. THE CLEAR SPACE BETWEEN HANDRAILS AND WALL SHALL BE 1 1/2".
   D. GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.
   E. TOP OF HANDRAIL GRIPPING SURFACE SHALL BE MOUNTED BETWEEN 34". AND 38". ABOVE STAIR NOSINGS.
   F. ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL OR POST.
   G. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
   H. DIAMETER OR WIDTH OF GRIPPING SURFACE SHALL BE 1 1/4" TO 1 1/2" OR SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.

TOILET ROOMS

1. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE REQUIRED FOR ANY FIXTURE.
2. AN UNOBSTRUCTED TURNING SPACE SHALL BE PROVIDED WITHIN AN ACCESSIBLE TOILET ROOM. THE CLEAR FLOOR SPACE AT FIXTURES AND CONTROLS, THE ACCESSIBLE ROUTE, AND THE TURNING SPACE MAY OVERLAP; HOWEVER, THE ONLY TURNING SPACE PROVIDED SHALL NOT BE LOCATED WITHIN A STALL.
3. IF TOILET STALLS ARE PROVIDED, THEN AT LEAST ONE SHALL BE A STANDARD TOILET STALL; WHERE 6 OR MORE STALLS ARE PROVIDED, IN ADDITION TO THE STANDARD H.C. STALL, AT LEAST ONE STALL 36" WIDE WITH AN OUTWARD SWINGING, SELF-CLOSING DOOR AND PARALLEL GRAB BARS SHALL BE PROVIDED.
4. IF URINALS ARE PROVIDED, THEN AT LEAST ONE SHALL COMPLY.
5. IF LAVATORIES AND MIRRORS ARE PROVIDED, THEN AT LEAST ONE OF EACH SHALL COMPLY. ACCESSIBLE LAVATORIES AND MIRRORS SHALL NOT BE LOCATED WITHIN TOILET STALLS UNLESS OTHER ACCESSIBLE LAVATORIES AND MIRRORS ARE PROVIDED IN THE TOILET ROOM.
6. IF CONTROLS, DISPENSERS, RECEPTACLES, OR OTHER EQUIPMENT ARE PROVIDED, THEN AT LEAST ONE OF EACH SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL COMPLY.

DRINKING FOUNTAINS AND WATER COOLERS

1. THE SPOUT SHALL BE WITHIN 3" FROM THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH SO AS TO ALLOW THE INSERTION OF A CUP OR GLASS UNDER THE FLOW OF WATER.
2. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. CONTROLS SHALL BE OPERATED WITH ONE HAND AND WITH MAX. FORCE OF 5 LBS.

WATER CLOSETS

1. CLEAR FLOOR SPACE FOR WATER CLOSETS NOT IN STALLS SHALL COMPLY WITH DRAWING 3/A-009. CLEAR FLOOR SPACE MAY BE ARRANGED TO ALLOW EITHER A LEFT-HANDED OR RIGHT-HANDED APPROACH.
2. THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19", MEASURED TO THE TOP OF THE TOILET SEAT.
3. GRAB BARS FOR WATER CLOSETS NOT LOCATED IN STALLS SHALL COMPLY WITH ILLUSTRATION. THE GRAB BAR BEHIND THE WATER CLOSET SHALL BE 36" MINIMUM.
4. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC (REFERENCE CONTROLS AND OPERATING SYSTEMS REQUIREMENTS ON SHEET A-007). CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 44"ABOVE THE FLOOR.
5. TOILET PAPER DISPENSERS SHALL BE INSTALLED WITHIN REACH, AS SHOWN IN DRAWING 1/A-011.

GRAB BARS

1. THE SIZE AND ARRANGEMENT OF THE STANDARD TOILET STALL SHALL COMPLY WITH DRAWING 1/A-011, STANDARD STALL.
2. THE SPACE BETWEEN THE GRAB BARS AND THE WALLS SHALL BE 1 1/2".
3. GRAB BARS SHALL NOT ROTATE WITH IN THEIR FITTINGS.
4. GRAB BARS AND ADJACENT WALL SURFACES SHALL BE FREE OF SHARP OR ABRASIVE SURFACES.
5. EDGES SHALL HAVE A RADIUS OF 1/8" MINIMUM.

URINALS

1. URINALS SHALL BE STALL-TYPE, OR WALL-HUNG WITH A TAPERED ELONGATED RIM MOUNTED AT A MAXIMUM OF 17" ABOVE THE FINISHED FLOOR.
2. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FINISHED FLOOR.

LAVATORIES AND MIRRORS

1. LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE APRON. KNEE AND TOE CLEARANCE SHALL COMPLY WITH DRAWING 3/A-010.
2. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
3. LEVER-OPERATED, PUSH-TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. IF SELF-CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS.
4. MIRRORS SHALL BE ON ACCESSIBLE ROUTES AT LOCATIONS CONSISTENT WITH THAT OF OTHER MIRRORS IN THE SAME ROOM, AND SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE NO HIGHER THAN 40" ABOVE THE FINISHED FLOOR.

DETECTABLE WARNINGS

1. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

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SINKS

1. SINKS SHALL BE MOUNTED WITH THE COUNTER OR RIM NO HIGHER THAN 34" ABOVE THE FINISHED FLOOR.
2. KNEE CLEARANCE THAT IS AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP SHALL BE PROVIDED UNDERNEATH SINKS.
3. EACH SINK SHALL BE A MAXIMUM OF 6 1/2" (165 MM) DEEP.
4. A CLEAR FLOOR SPACE AT LEAST 30" BY 48" SHALL BE PROVIDED IN FRONT OF A SINK TO ALLOW FORWARD APPROACH. SINKS INSTALLED IN ALCOVES DEEPER THAN 24" REQUIRE ADDITIONAL MANEUVERING AREA. THE CLEAR FLOOR SPACE SHALL BE ON AN ACCESSIBLE ROUTE AND SHALL EXTEND A MAXIMUM OF 19" UNDERNEATH THE SINK.
5. HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED SO AS TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
6. LEVER-OPERATED, PUSH-TYPE, TOUCH-TYPE, OR ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE DESIGNS.

STORAGE

1. A CLEAR FLOOR SPACE AT LEAST 30" BY 48" THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT ACCESSIBLE STORAGE FACILITIES. THIS CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE. IN STORAGE FACILITIES PERMITTING FULL ENTRY BY A WHEELCHAIR, AND ALLOWING A WHEELCHAIR TO TRAVEL CLEAR OF THE DOOR SWING, AN UNOBSTRUCTED TURNING SPACE SHALL BE PROVIDED WITHIN THE STORAGE FACILITY.
2. ACCESSIBLE STORAGE SPACES SHALL BE WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED. CLOTHES RODS OR SHELVES SHALL BE A MAXIMUM OF 54" ABOVE THE FINISHED FLOOR FOR A SIDE APPROACH. WHERE THE DISTANCE FROM THE WHEELCHAIR TO THE CLOTHES ROD OR SHELF EXCEEDS 10" (AS IN CLOSETS WITHOUT ACCESSIBLE DOORS) THE HEIGHT AND DEPTH TO THE ROD OR SHELF SHALL COMPLY WITH DRAWING 4/A-011.
3. TOUCH LATCHES AND U-SHAPED PULLS ARE ACCEPTABLE.

HANDRAILS AND GRAB BARS

1. THE NOMINAL DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1 1/4" TO 1 1/2", OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF HANDRAILS OR GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2" AT RAMPS AND 2 1/4". AT STAIRS. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS A MAXIMUM OF 3" DEEP AND EXTENDS AT LEAST 18" ABOVE THE TOP OF THE RAIL.
2. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:
   A. BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT.
   B. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT. IF THE CONNECTION BETWEEN THE GRAB BAR OR SEAT AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
   C. SHEAR FORCE INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
   D. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.
   E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
3. A HANDRAIL OR GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".

SIGNAGE

1. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10 USING AN UPPER-CASE "X" FOR MEASUREMENT. LOWER CASE LETTERS ARE PERMITTED. MINIMUM CHARACTER HEIGHT IS 3 INCHES.
2. CHARACTERS AND NUMBERS ON OVERHEAD SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED.
3. LETTERS AND NUMERALS SHALL BE RAISED 1/32", UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2". PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.
4. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND --EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
5. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
6. SYMBOLS OF ACCESSIBILITY.
   A. FACILITIES SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SYMBOL SHALL BE DISPLAYED AS SHOWN IN DRAWING 3/A-011.
   B. VOLUME CONTROL TELEPHONES. TELEPHONES REQUIRED TO HAVE A VOLUME SHALL BE IDENTIFIED BY A SIGNCONTAINING A DEPICTION OF A TELEPHONE HANDSET WITH RADIATING SOUND WAVES.
   C. TEXT TELEPHONES SHALL BE IDENTIFIED BY THE INTERNATIONAL TDD SYMBOL. IN ADDITION, IF A FACILITY HAS A PUBLIC TEXT TELEPHONE, DIRECTIONAL SIGNAGE INDICATING THE LOCATION OF THE NEAREST TEXT TELEPHONE SHALL BE PLACED ADJACENT TO ALL BANKS OF TELEPHONES WHICH DO NOT CONTAIN A TEXT TELEPHONE. SUCH DIRECTIONAL SIGNAGE SHALL INCLUDE THE INTERNATIONAL TDD SYMBOL. IF A FACILITY HAS NO BANKS OF TELEPHONES, THE DIRECTIONAL SIGNAGE SHALL BE PROVIDED AT THE ENTRANCE (E.G., IN A BUILDING DIRECTORY).
   D. ASSISTIVE LISTENING SYSTEMS. IN ASSEMBLY AREAS WHERE PERMANENTLY INSTALLED ASSISTIVE LISTENING SYSTEMSARE REQUIRED, THE AVAILABILITY OF SUCH SYSTEMS SHALL BE IDENTIFIED WITH SIGNAGE THAT INCLUDES THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS.

CONTROLS AND OPERATING SYSTEMS

1. CLEAR FLOOR SPACE THAT ALLOWS A FORWARD OR A PARALLEL APPROACH BY A PERSON USING A WHEELCHAIR SHALL BE PROVIDED AT CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT. CONTROLS AND OPERATING MECHANISMS LOCATED IN ALCOVES DEEPER THAN 24" REQUIRE ADDITIONAL MANEUVERING AREA.
2. THE HIGHEST OPERABLE PART OF CONTROLS, DISPENSERS, RECEPTACLES, AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED. ELECTRICAL AND COMMUNICATIONS SYSTEM RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR.
EXCEPTION: THESE REQUIREMENTS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL AND COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
3. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.

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DRAWING TITLE
ACCESSIBILITY GENERAL NOTES- SHEET 3

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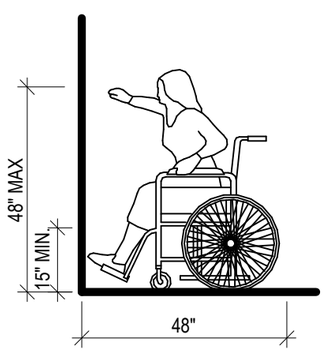
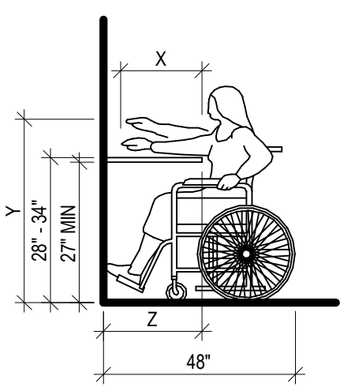
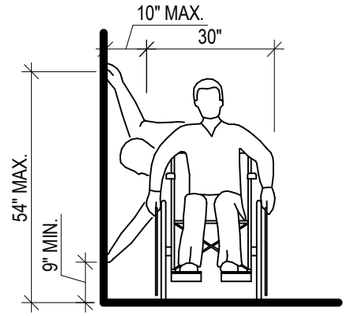
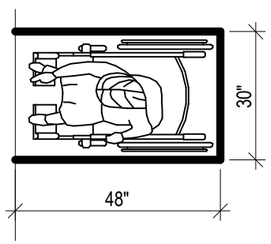
DRAWING NO. **A-007** REV. A



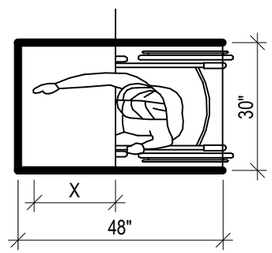




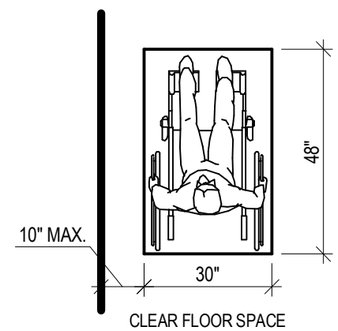
HIGH AND LOW SIDE REACH LIMITS



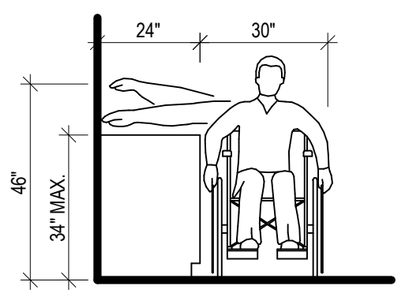
HIGH FORWARD REACH LIMIT



MAX. FORWARD REACH OVER AN OBSTRUCTION



CLEAR FLOOR SPACE PARALLEL APPROACH

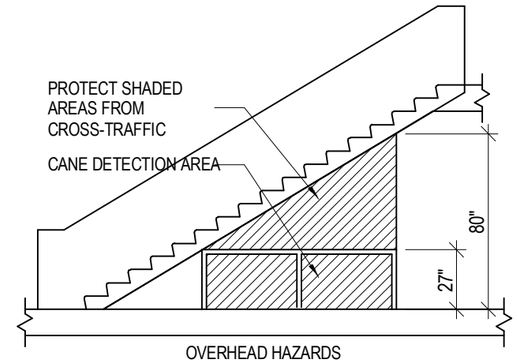


MAX SIDE REACH OVER OBSTRUCTION

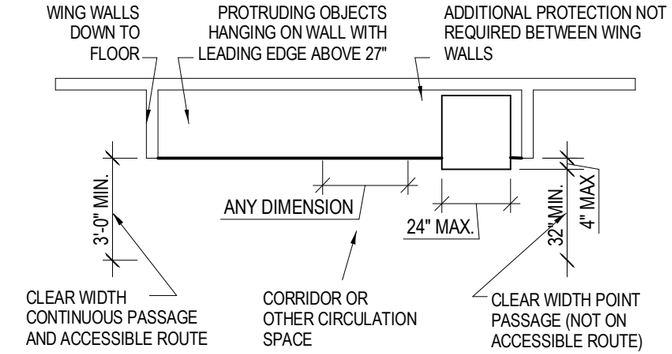
NOTE:
X SHALL BE <= 25 IN; Z SHALL BE >= X, WHEN X < 20 IN, THEN Y SHALL BE 48 IN MAXIMUM.
WHEN X IS 20 TO 25 IN, THEN Y SHALL BE 44 IN. MAXIMUM.

2 REACH RANGES AND CLEAR FLOOR SPACE

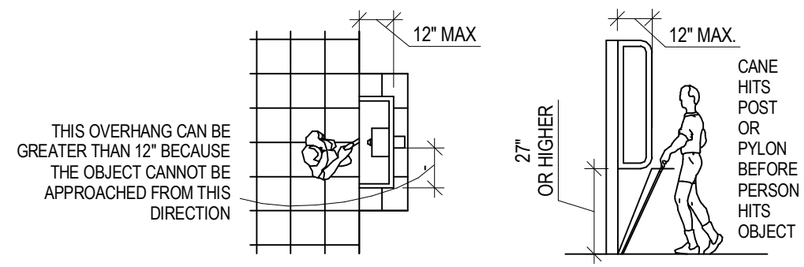
SCALE: NOT TO SCALE



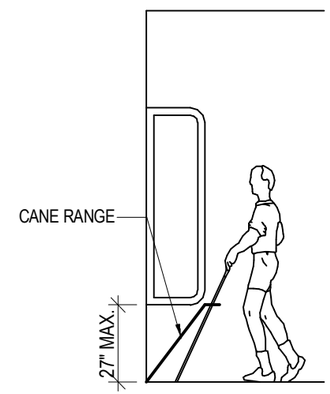
OVERHEAD HAZARDS



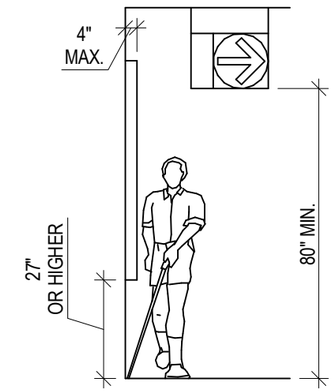
EXAMPLE OF PROTECTION AROUND WALL MOUNTED OBJECTS AND MEASUREMENTS OF CLEAR WIDTHS (PLAN VIEW)



OBJECTS MOUNTED ON POSTS OR PYLONS



WALKING PERPENDICULAR TO A WALL



WALKING PARALLEL TO A WALL

1 PROTRUDING OBJECTS

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DRAWING TITLE
ACCESSIBILITY DIAGRAMS-SHEET 1

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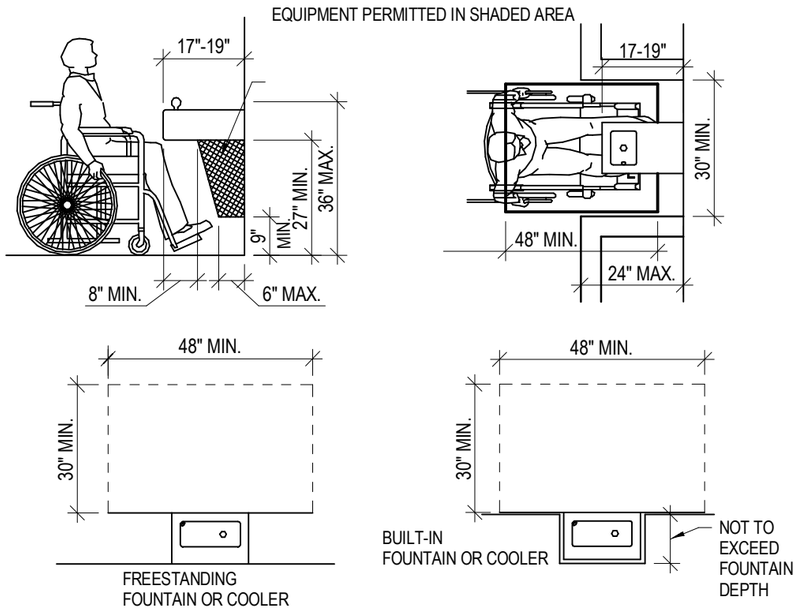
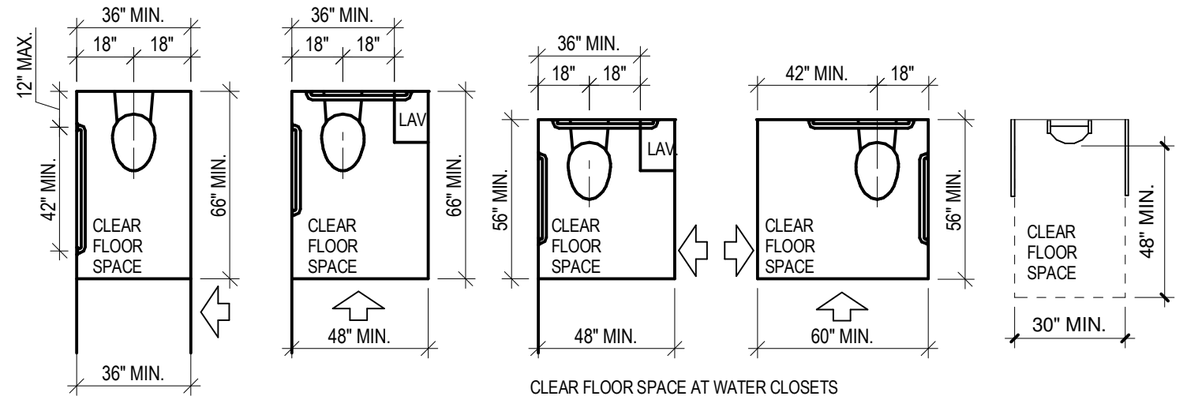


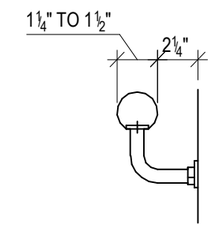
4 DRINKING FOUNTAINS

SCALE: NOT TO SCALE



3 WATER CLOSETS/ URINAL TYP. PLAN DIMS

SCALE: NOT TO SCALE



2 GRAB BARS

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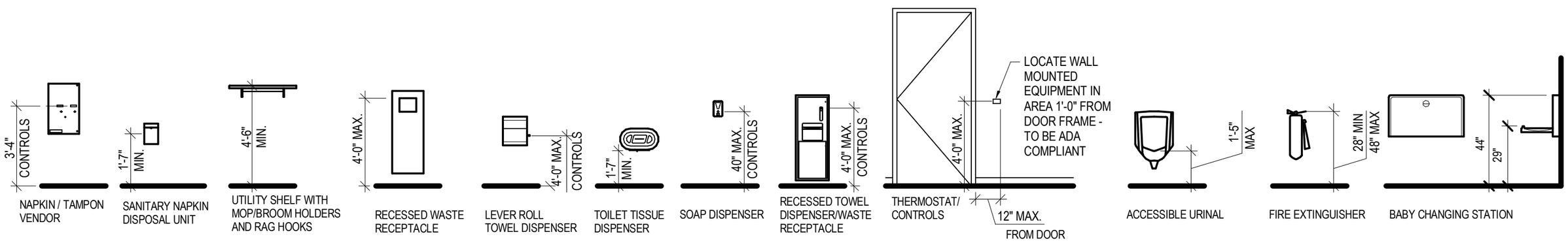

1 CONTROLS AND OPERATING SYSTEMS

SCALE: NOT TO SCALE

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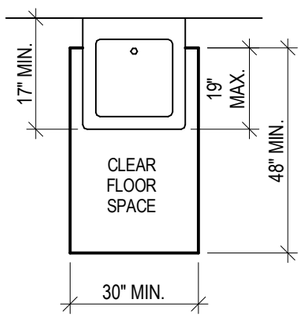
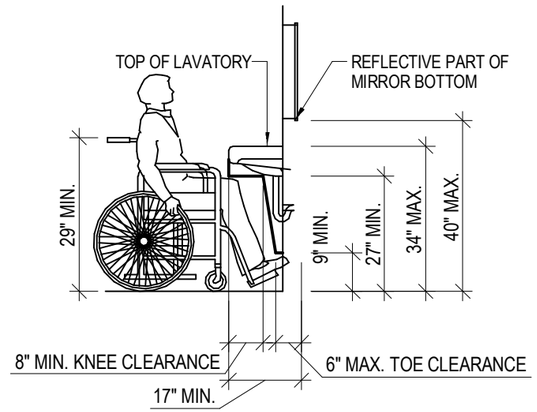
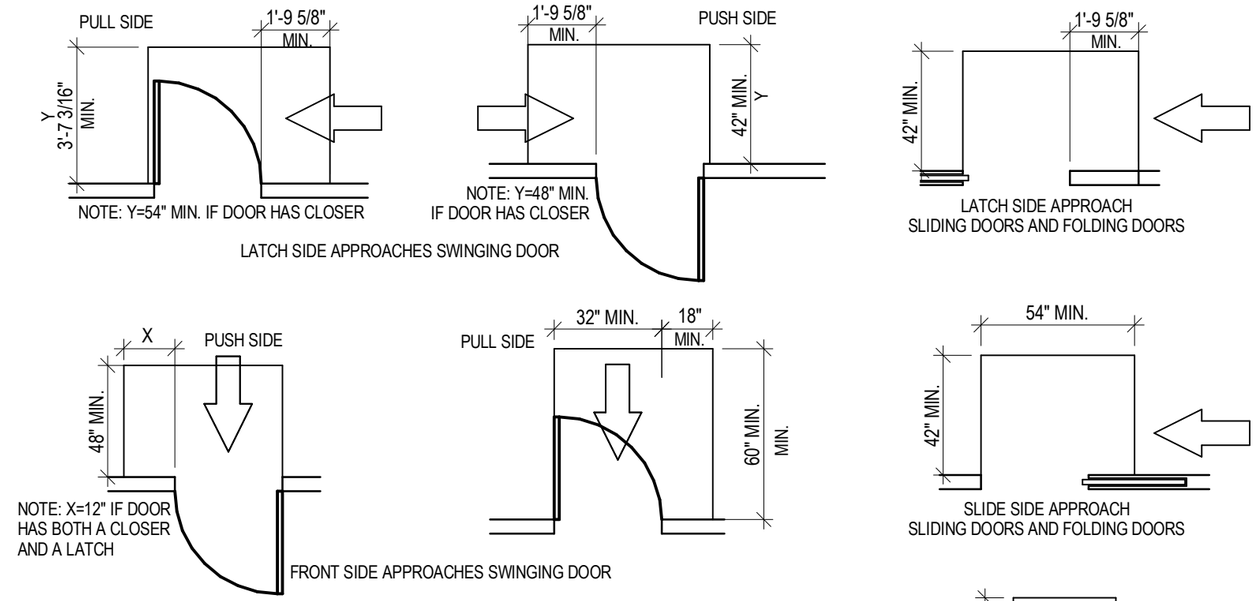
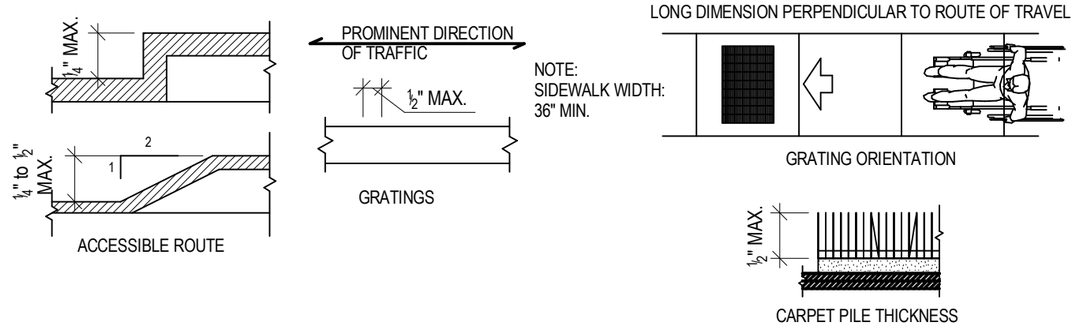




3 LAVORATORIES AND MIRRORS

SCALE: NOT TO SCALE





2 GROUND AND FLOOR SURFACES

SCALE: NOT TO SCALE

1 DOORS

SCALE: NOT TO SCALE

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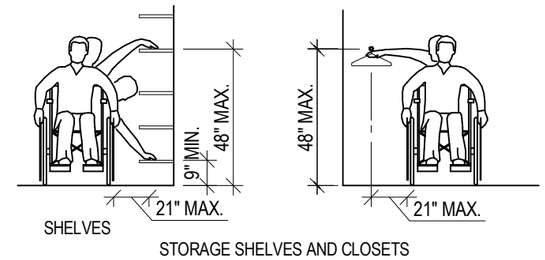


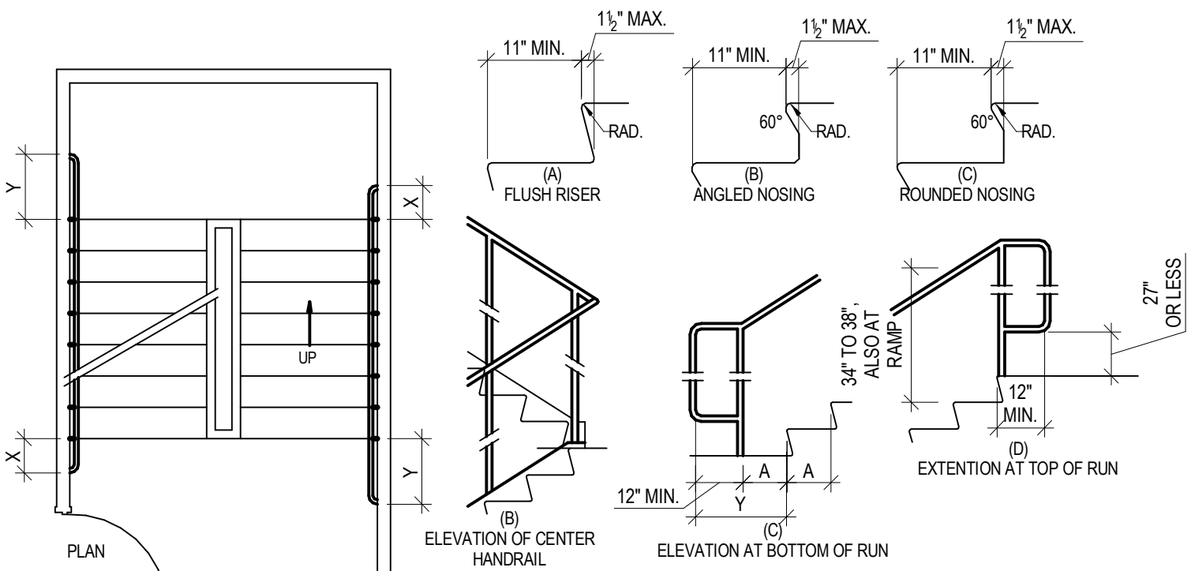
4 STORAGE

SCALE: NOT TO SCALE

INTERNATIONAL SYMBOL OF ACCESSIBILITY

3 SIGNAGE

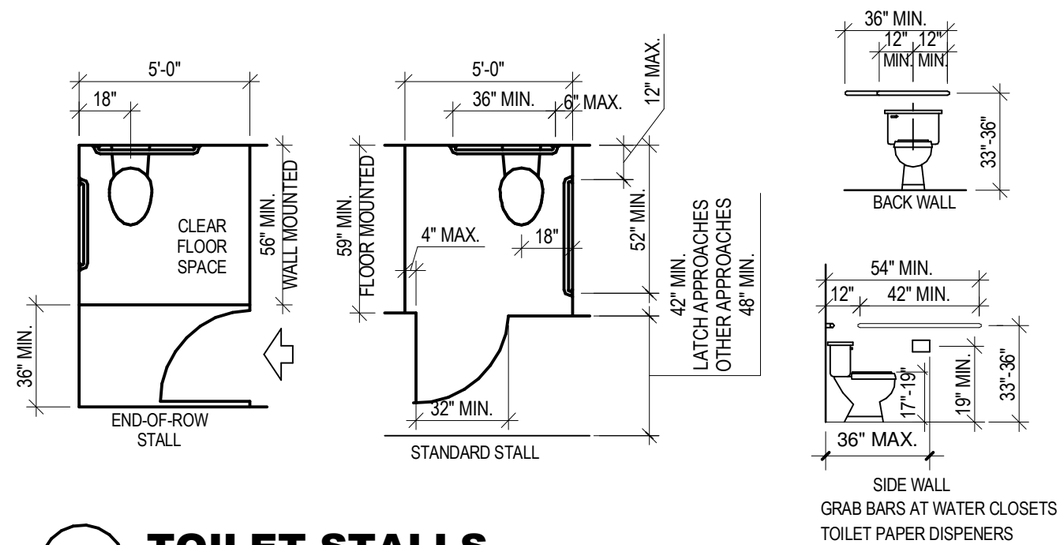
SCALE: NOT TO SCALE



NOTE:
X IS THE 12" MINIMUM HANDRAIL EXTENSION REQUIRED AT EACH TOP RISER. Y IS THE MINIMUM HANDRAIL EXTENSION OF 12" PLUS THE WIDTH OF ONE TREAD THAT IS REQUIRED AT EACH BOTTOM RISER.

2 STAIRS

SCALE: NOT TO SCALE



1 TOILET STALLS

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SUMMARY OF CIVIL QUANTITIES

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TRAFFIC CONTROL AND SEQUENCE OF WORK

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DRAWING TITLE
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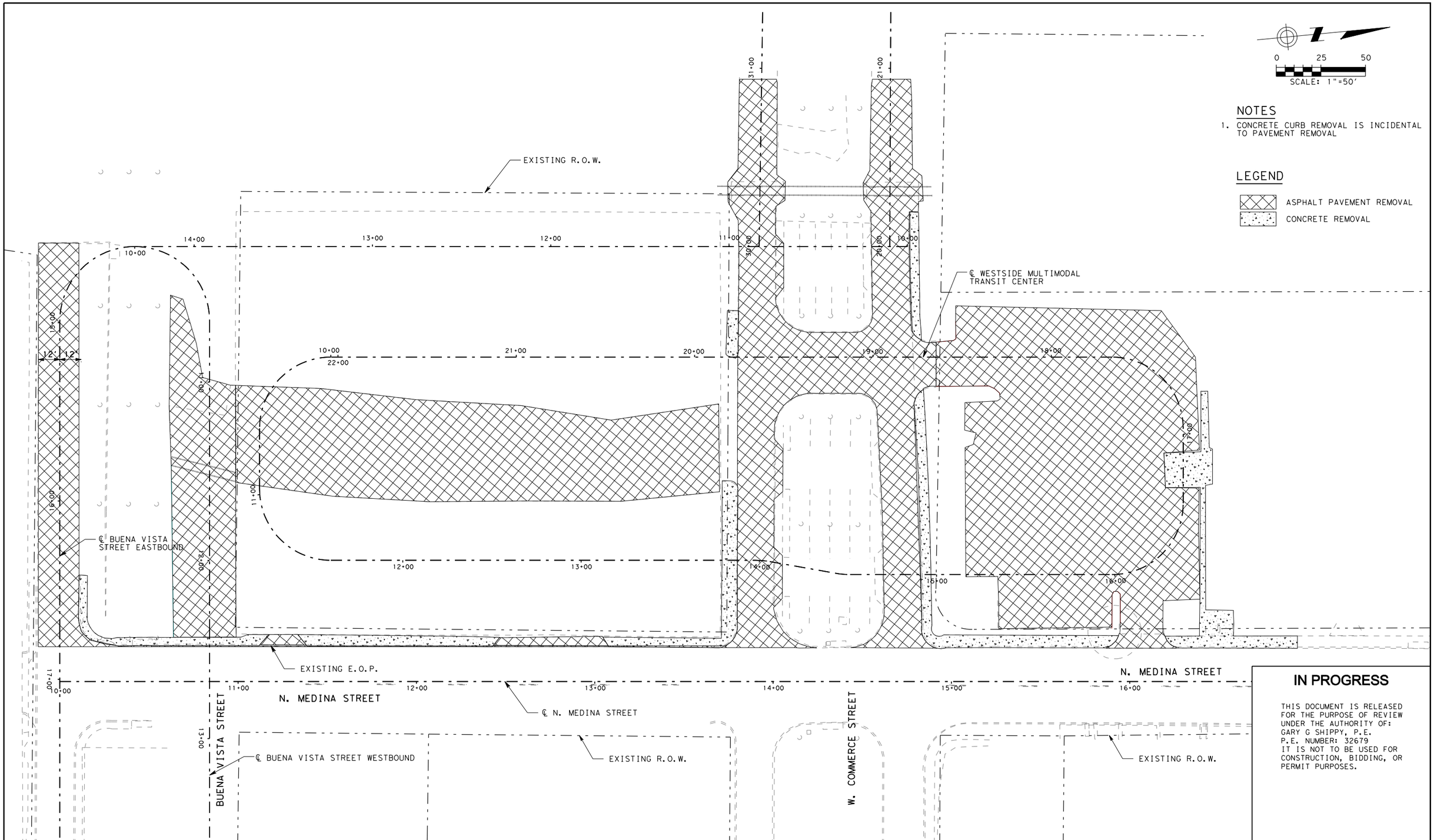

NOTES

1. CONCRETE CURB REMOVAL IS INCIDENTAL TO PAVEMENT REMOVAL

LEGEND

ASPHALT PAVEMENT REMOVAL

CONCRETE REMOVAL

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DRAWING TITLE
REMOVAL PLAN
SHEET 1 OF 3

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. C-105 | REV. A

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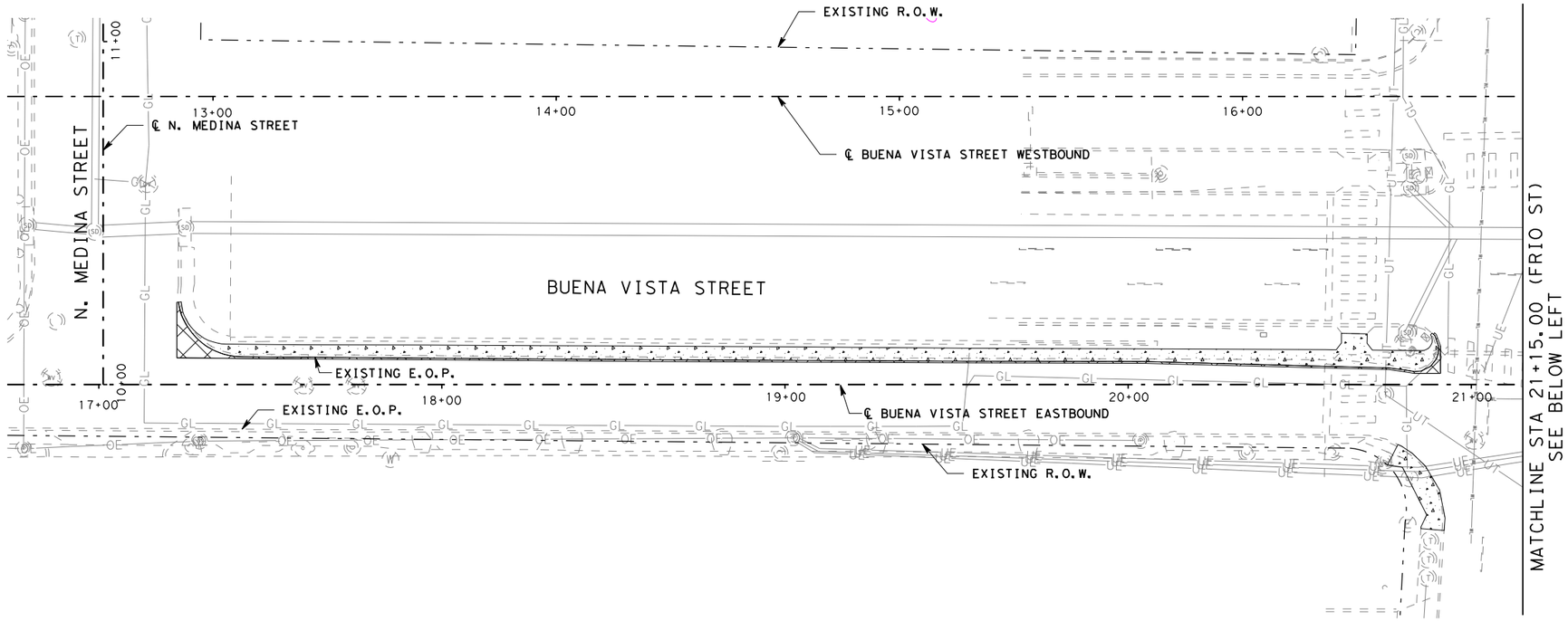

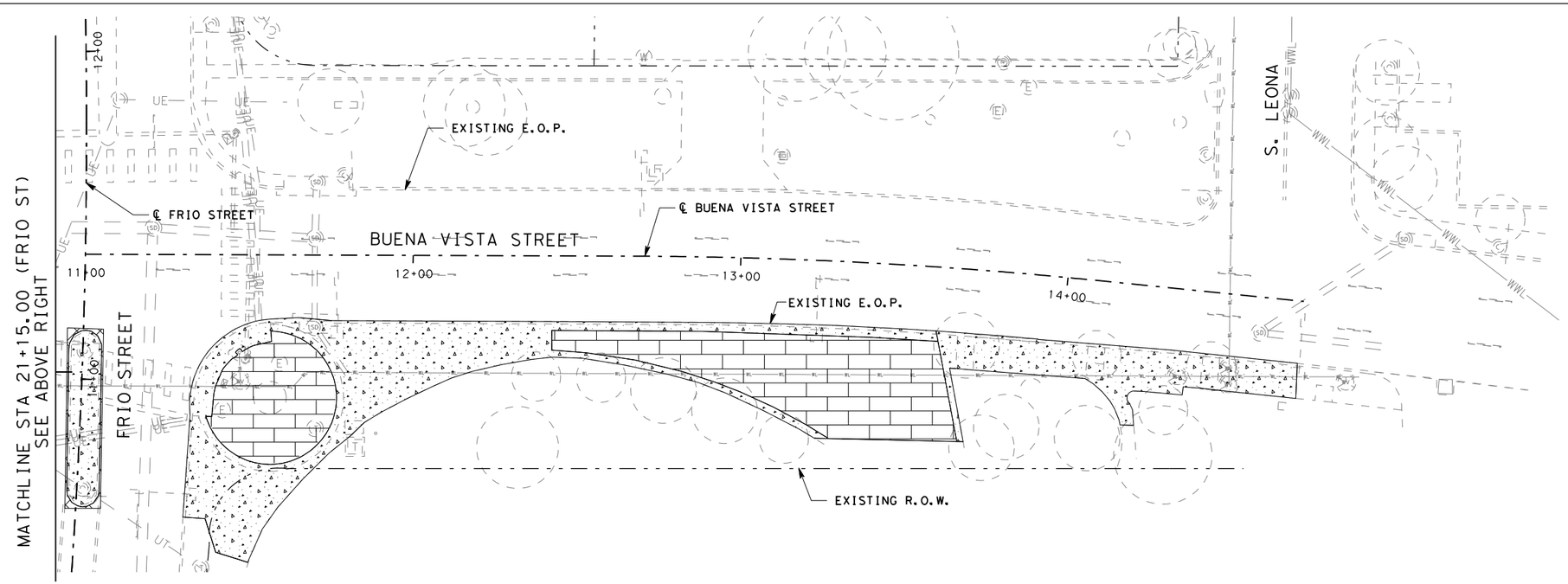

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LEGEND

- ASPHALT PAVEMENT REMOVAL
- CONCRETE REMOVAL
- BRICK PAVER REMOVAL

IN PROGRESS

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WESTSIDE MULTIMODAL TRANSIT CENTER

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DRAWING TITLE
REMOVAL PLAN
SHEET 2 OF 3

65% DOCUMENTS | JUNE 25, 2010
DRAWING NO. C-106
REV. A

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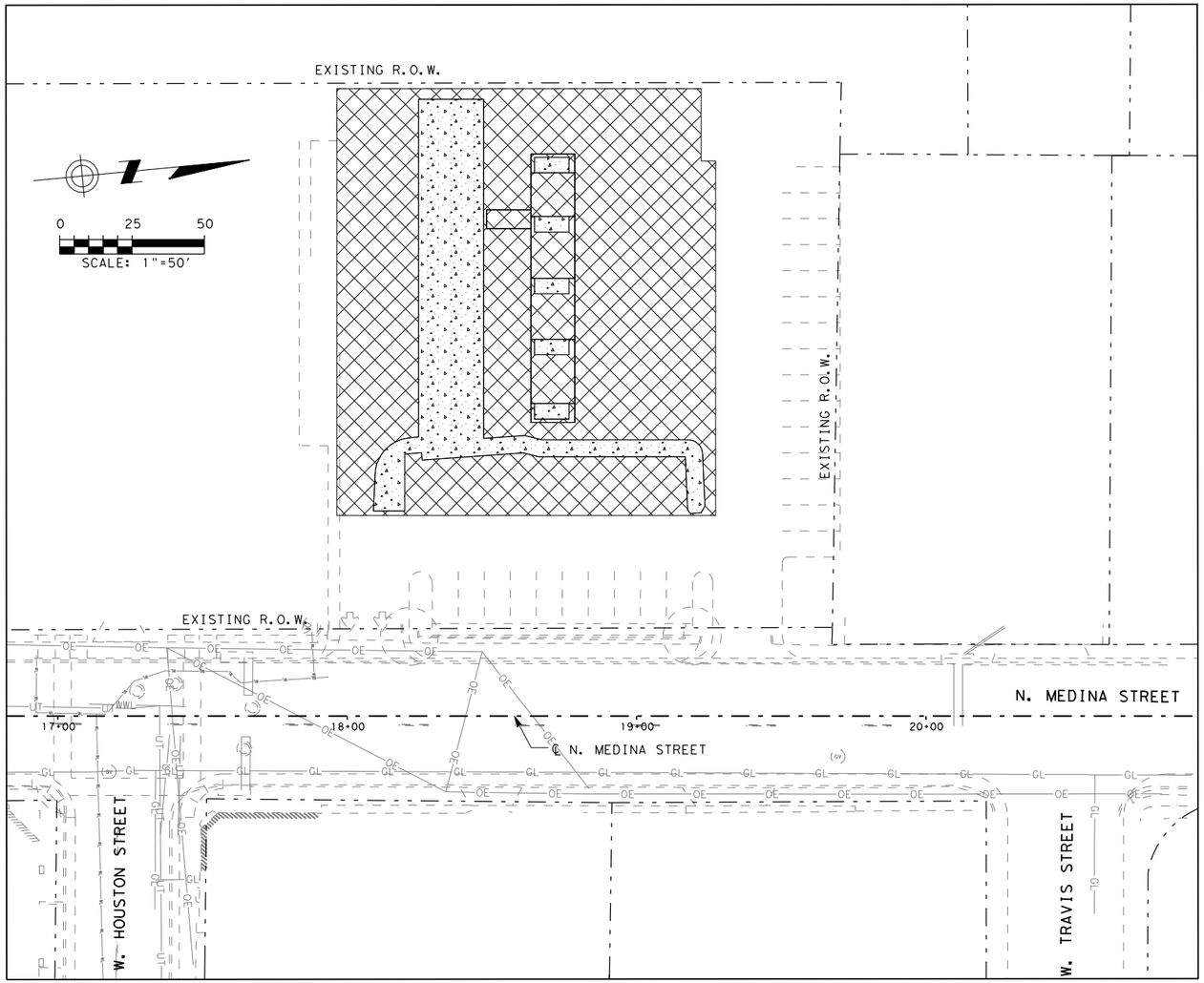
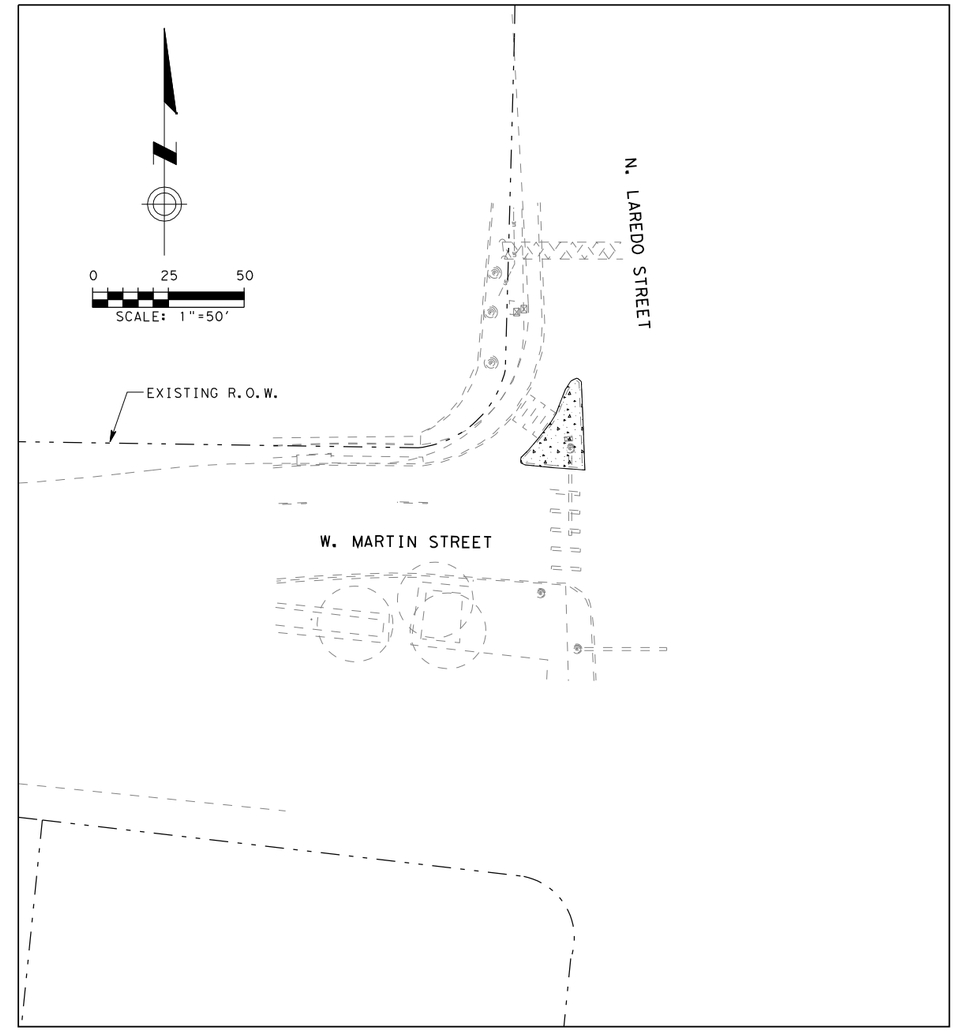


EMPLOYEE PARKING LOT REMOVAL PLAN



MEDIAN ISLAND REMOVAL PLAN

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LEGEND

- ASPHALT PAVEMENT REMOVAL
- CONCRETE REMOVAL

FILE: C107*WWTC*RMV*PL03.dgn
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REMOVAL PLAN
SHEET 3 OF 3
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-107
REV. A

CHAIN NAME	CURVE NO.	STATION	COORDINATE N	COORDINATE E	BEARING/DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
BUENA VISTA STREET EASTBOUND		PC 14+33.32	13,704,677.16	2,126,097.54	S 5° 28′ 33.90" W			
	C1	PI 14+75.32	13,704,635.35	2,126,093.53	90° 00′ 00.00" LT	65.97′	42.00′	42.00′
		PT 14+99.30	13,704,631.35	2,126,135.34	S 84° 31′ 26.10" E			
BUENA VISTA STREET WESTBOUND		PC 10+00.00	13,704,677.16	2,126,097.54	N 5° 28′ 33.90" E			
	C2	PI 10+42.00	13,704,718.97	2,126,101.54	90° 00′ 00.00" RT	65.97′	42.00′	42.00′
		PT 10+65.97	13,704,714.96	2,126,143.35	S 84° 31′ 26.10" E			
BUS CIRCULTATION		PC 10+00.00	13,704,780.74	2,126,169.75	S 5° 28′ 33.90" W			
	C3	PI 10+40.00	13,704,740.93	2,126,165.93	90° 00′ 00.00" LT	62.83′	40.00′	40.00′
		PT 10+62.83	13,704,737.11	2,126,205.75	S 84° 31′ 26.10" E			
		PC 10+96.83	13,704,733.86	2,126,239.59	S 84° 31′ 26.10" E			
	C4	PI 11+36.83	13,704,730.05	2,126,279.41	90° 00′ 00.00" LT	62.83′	40.00′	40.00′
		PT 11+59.66	13,704,769.86	2,126,283.23	N 5° 28′ 33.90" E			
		PC 13+97.98	13,705,007.10	2,126,305.97	N 5° 28′ 33.90" E			
	C5	PI 14+01.95	13,705,011.05	2,126,306.35	10° 04′ 50.15" RT	7.92′	3.97′	45.00′
		PT 14+05.90	13,705,014.87	2,126,307.42	N 15° 33′ 24.05" E			
		PC 14+43.67	13,705,051.26	2,126,317.54	N 15° 33′ 24.05" E			
	C6	PI 14+47.64	13,705,055.08	2,126,318.61	10° 04′ 50.15" LT	7.92′	3.97′	45.00′
		PT 14+51.59	13,705,059.03	2,126,318.99	N 5° 28′ 33.90" E			
		PC 15+98.33	13,705,205.10	2,126,332.99	N 5° 28′ 33.90" E			
	C7	PI 16+38.33	13,705,244.92	2,126,336.81	90° 00′ 00.00" LT	62.83′	40.00′	40.00′
		PT 16+61.16	13,705,248.74	2,126,296.99	N 84° 31′ 26.10" W			
		PC 17+03.16	13,705,252.74	2,126,255.18	N 84° 31′ 26.10" W			
	C8	PI 17+43.16	13,705,256.56	2,126,215.37	90° 00′ 00.00" LT	62.83′	40.00′	40.00′
		PT 17+65.99	13,705,216.74	2,126,211.55	S 5° 28′ 33.90" W			

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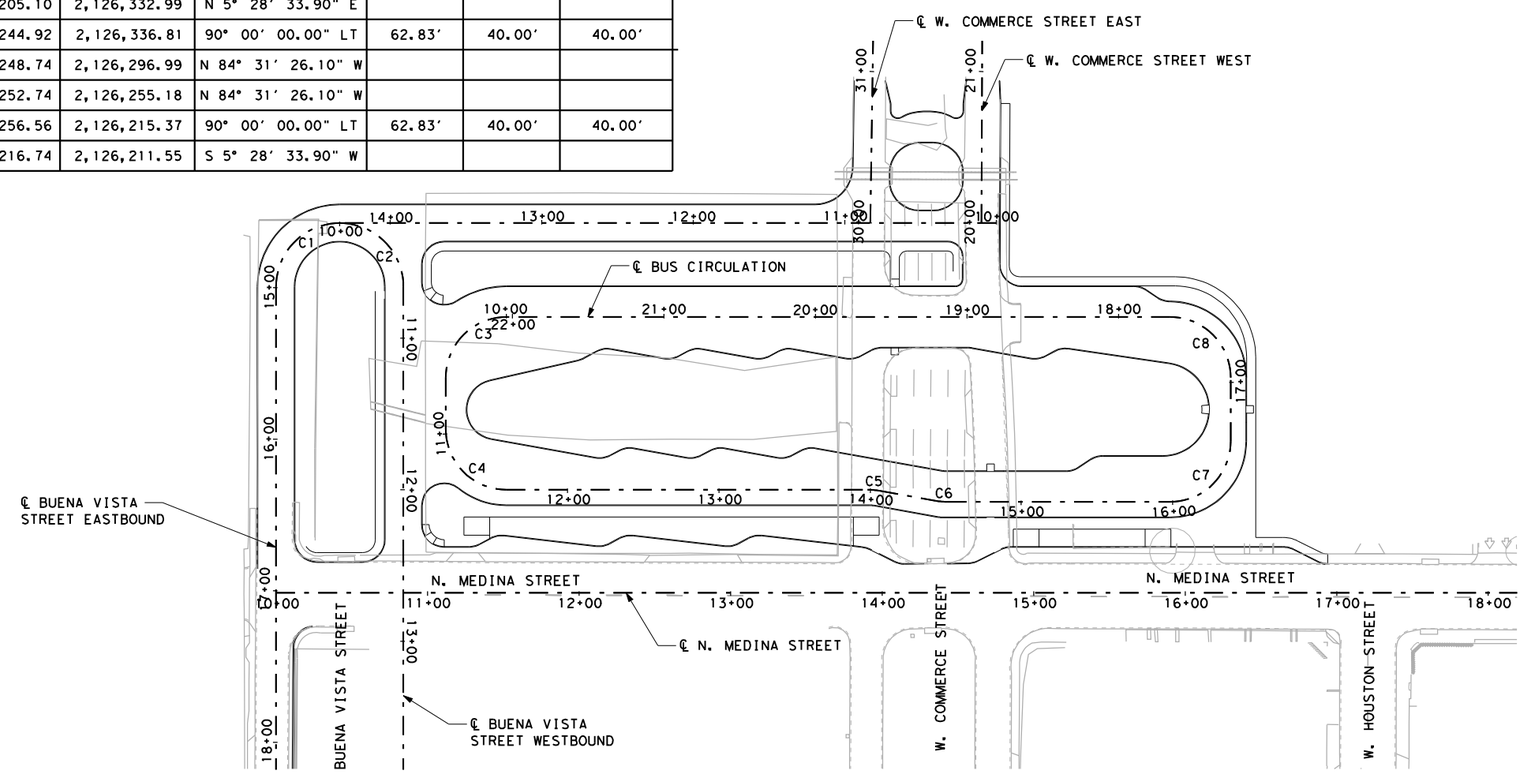
SCALE: 1"=100′

NOTES

1. REFER TO MULTIMODAL CENTER PLAN LAYOUT SHEET FOR ADDITIONAL DETAILS.



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DRAWING TITLE
GEOMETRIC CONTROL

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DRAWING NO. C-108
REV. A

DATE: 6/23/2010
TIME: 10:41:10 AM
Printed by: p0063442

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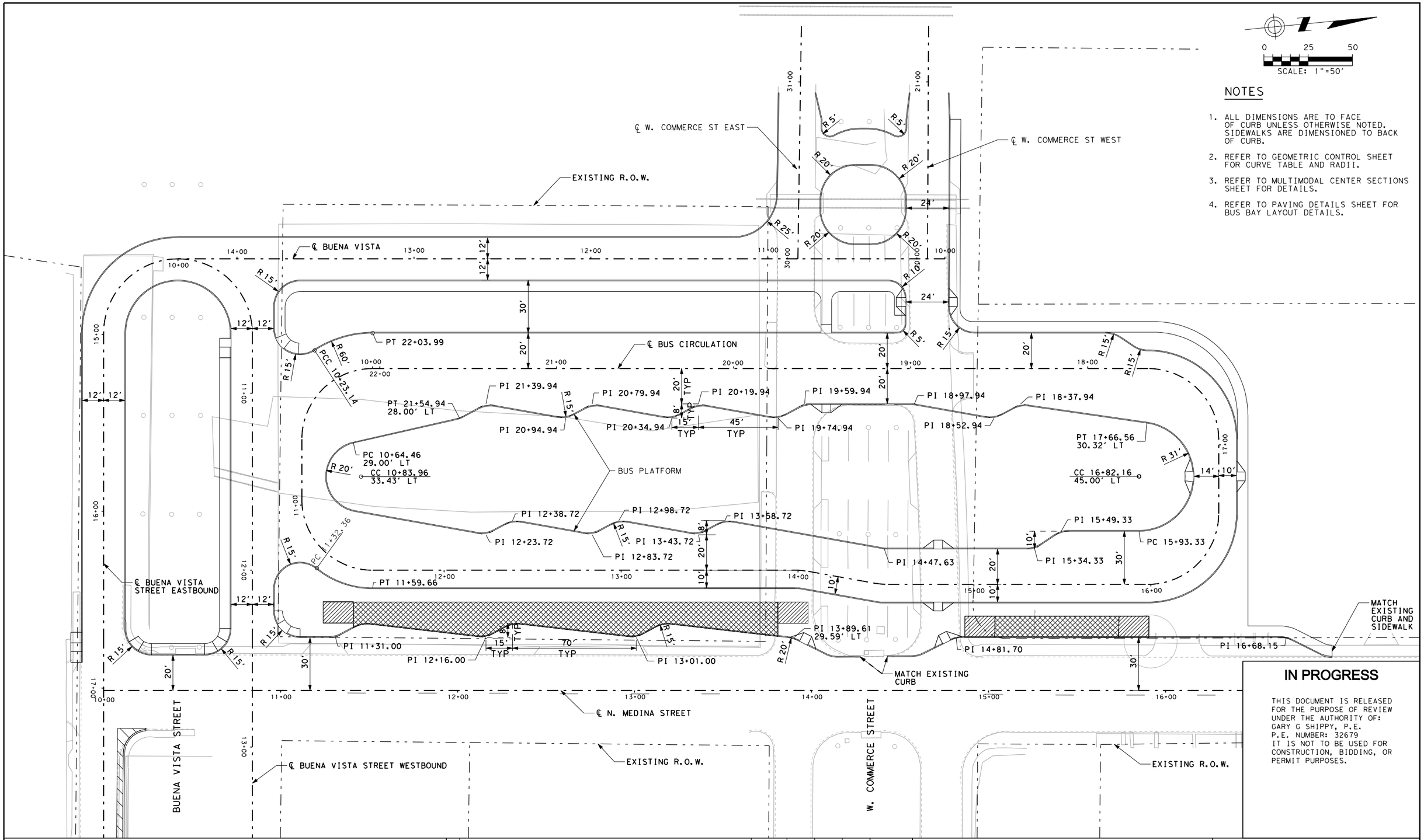

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. SIDEWALKS ARE DIMENSIONED TO BACK OF CURB.
2. REFER TO GEOMETRIC CONTROL SHEET FOR CURVE TABLE AND RADII.
3. REFER TO MULTIMODAL CENTER SECTIONS SHEET FOR DETAILS.
4. REFER TO PAVING DETAILS SHEET FOR BUS BAY LAYOUT DETAILS.

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DRAWING TITLE
MULTIMODAL CENTER
PLAN LAYOUT
SHEET 1 OF 2
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-109
REV. A

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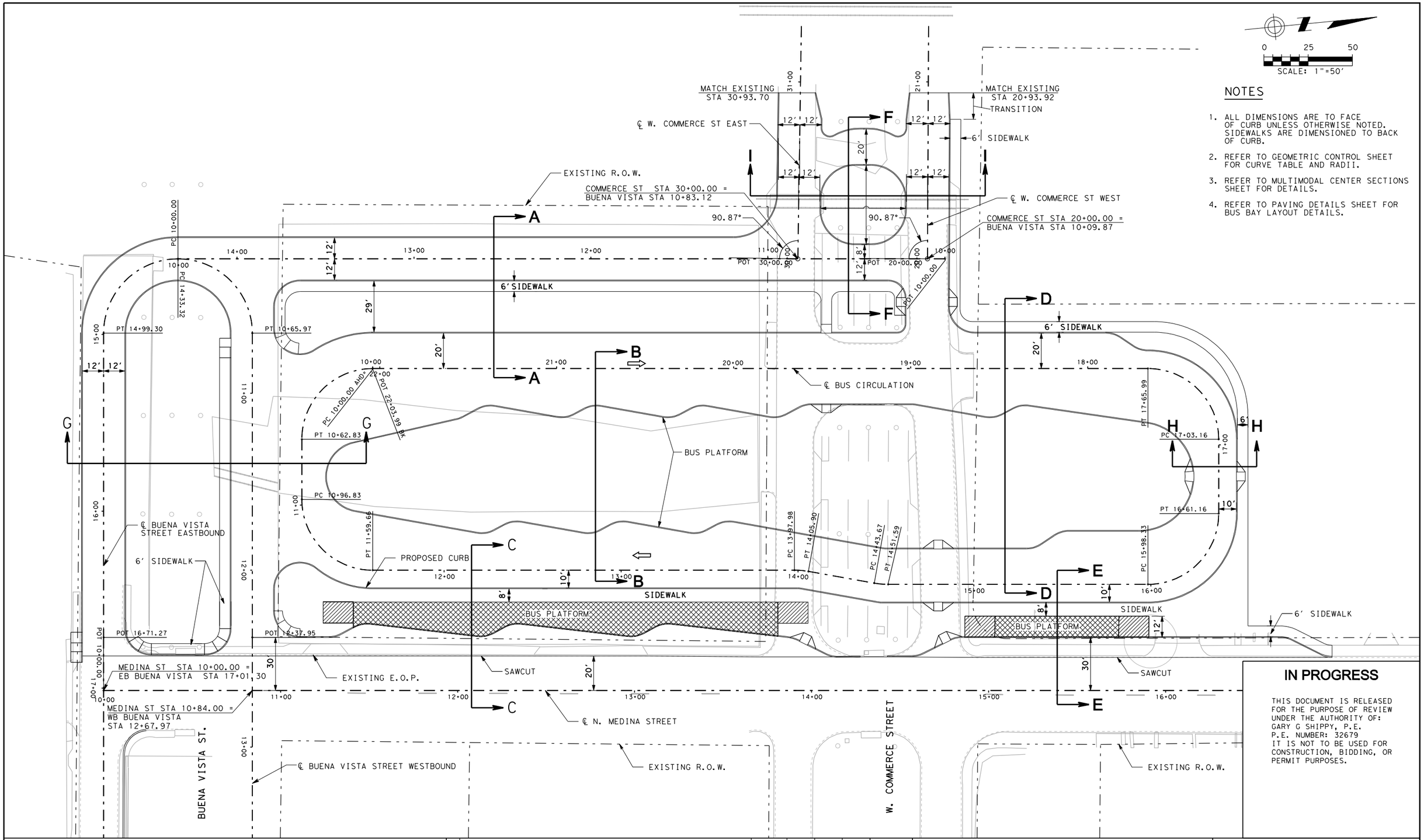

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. SIDEWALKS ARE DIMENSIONED TO BACK OF CURB.
2. REFER TO GEOMETRIC CONTROL SHEET FOR CURVE TABLE AND RADII.
3. REFER TO MULTIMODAL CENTER SECTIONS SHEET FOR DETAILS.
4. REFER TO PAVING DETAILS SHEET FOR BUS BAY LAYOUT DETAILS.

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DRAWING TITLE: MULTIMODAL CENTER PLAN LAYOUT SHEET 2 OF 2
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-110
REV. A

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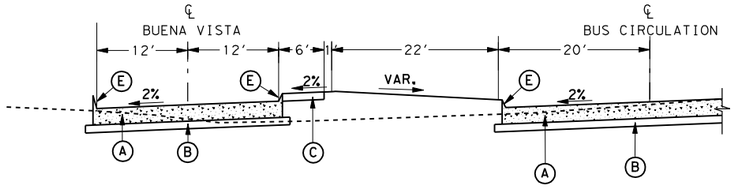

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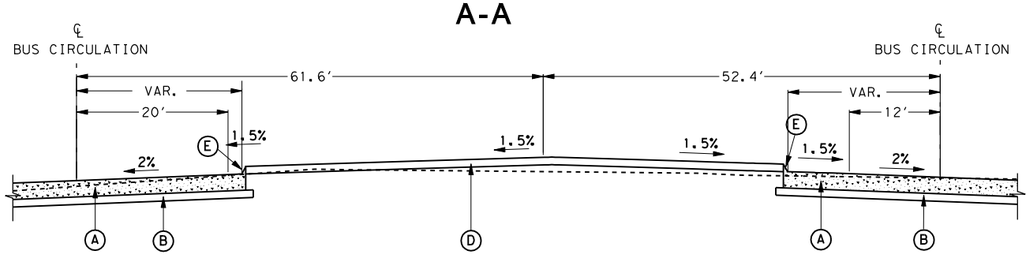

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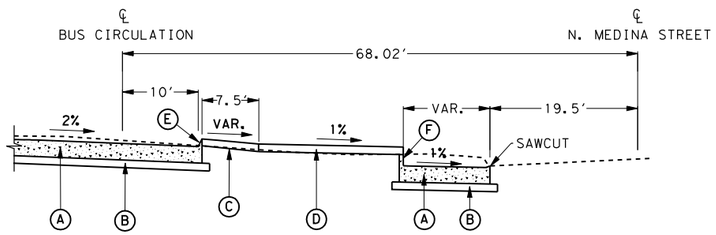

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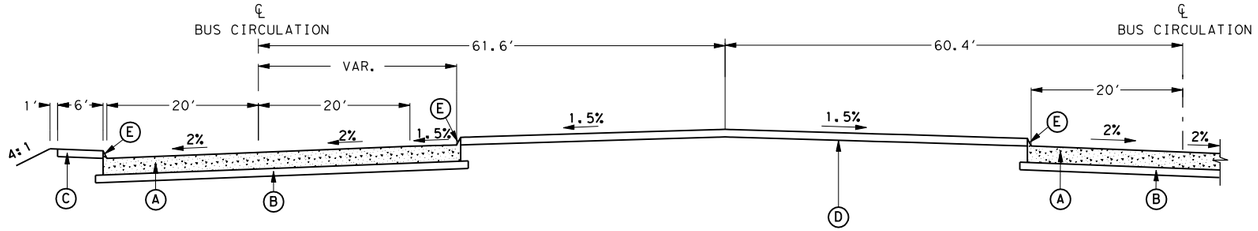

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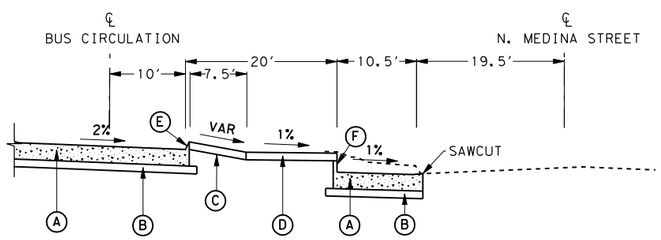

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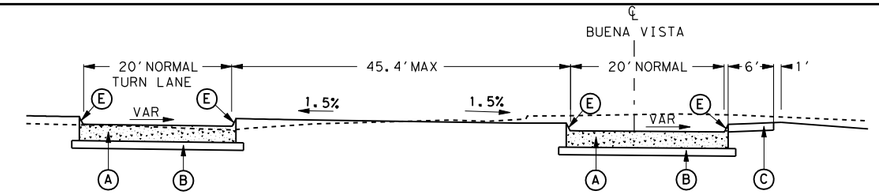

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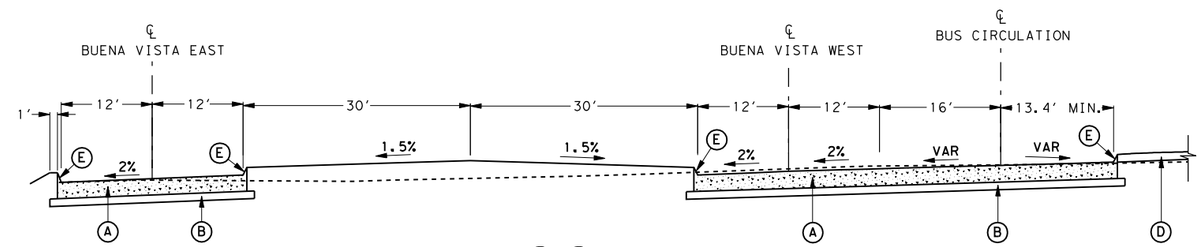

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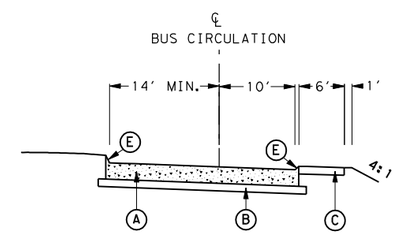

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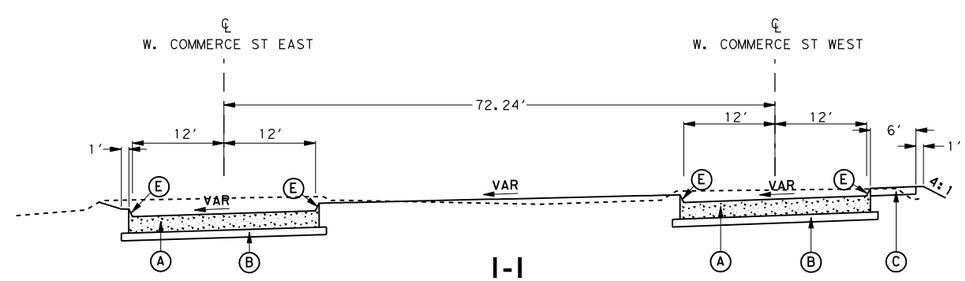

I-I

NOTES

- (A) 13" CONCRETE PAVEMENT (PCC)
- (B) 6" TREATED SUBGRADE
- (C) 4" CONCRETE SIDEWALK
- (D) CONCRETE PLATFORM
- (E) 7" CONCRETE CURB
- (F) 15" CONCRETE CURB

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DRAWING TITLE
MULTIMODAL CENTER SECTIONS

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DRAWING NO. C-111
REV. A

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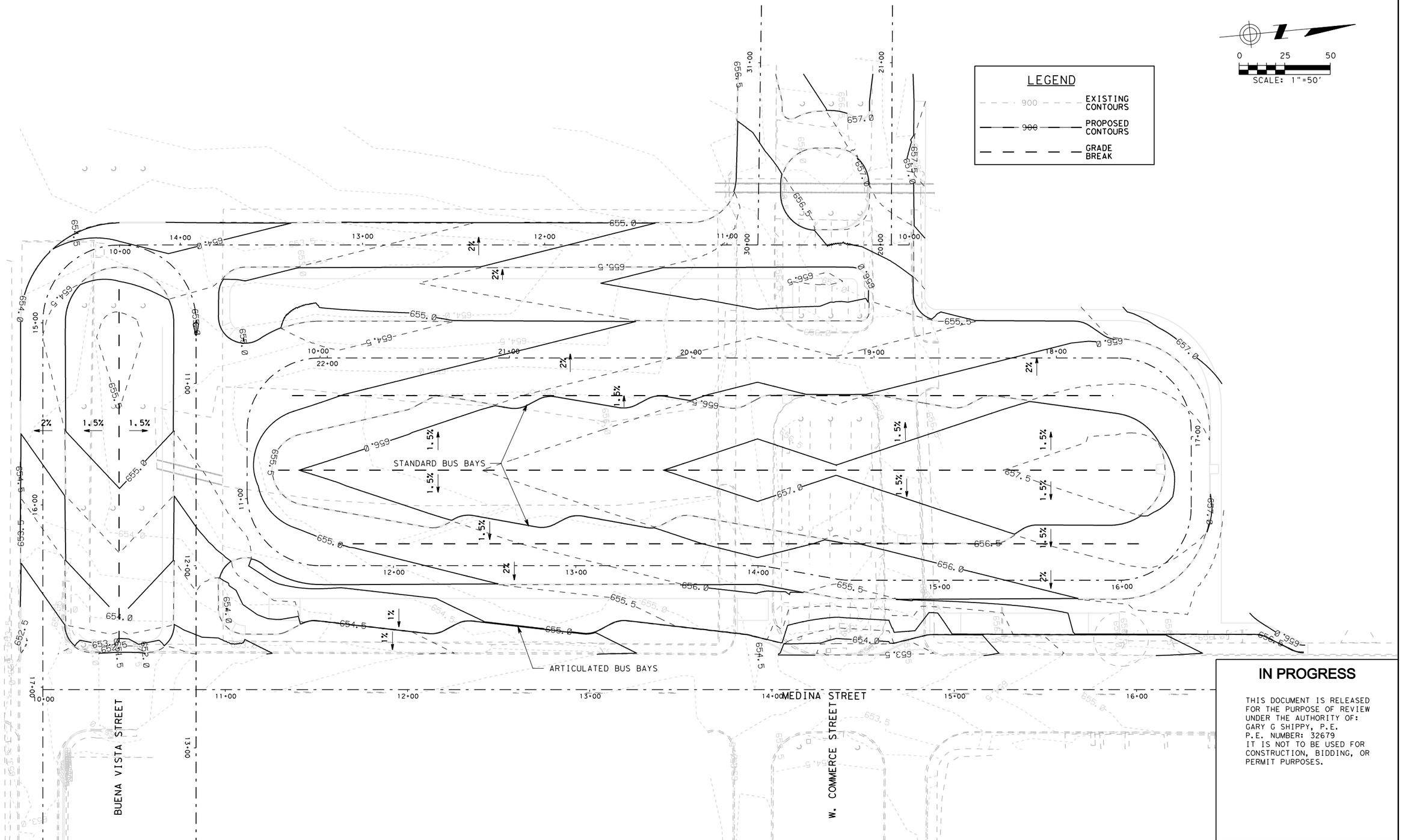

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WESTSIDE MULTIMODAL TRANSIT CENTER

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DRAWING TITLE
GRADING PLAN
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-112
REV. A

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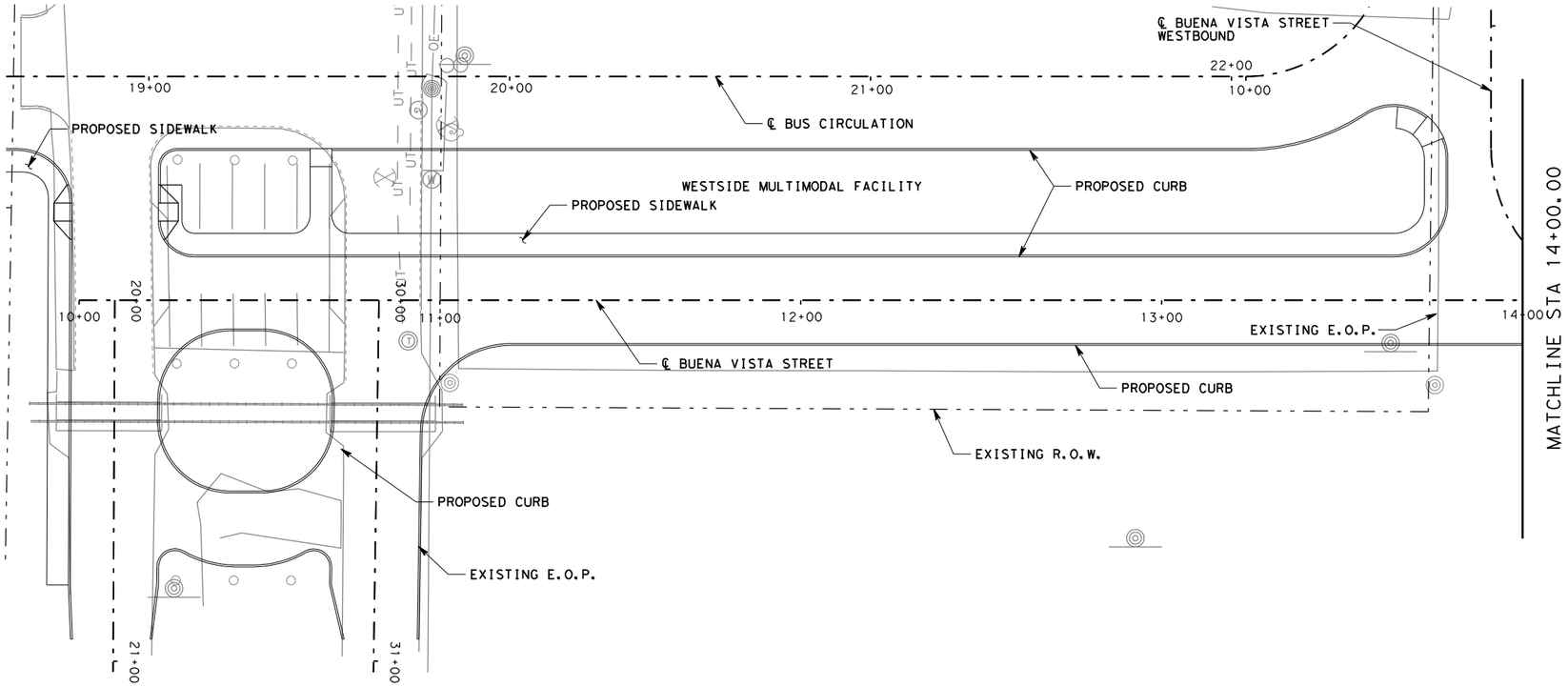
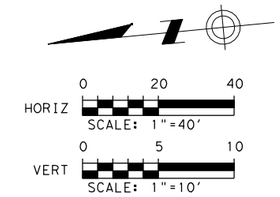
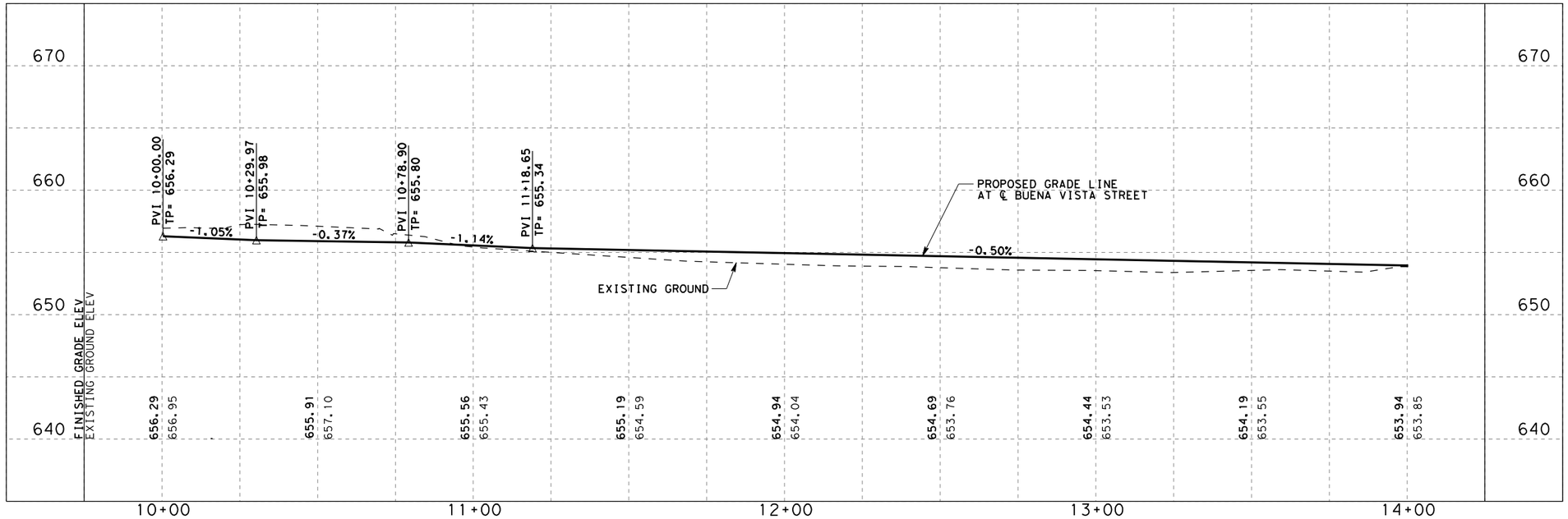




NOTES

1. SEE MULTIMODAL CENTER PLAN LAYOUT SHEET FOR ADDITIONAL INFORMATION.



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FILE: C113*WMTC*RD*PP01.dgn
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WESTSIDE MULTIMODAL TRANSIT CENTER

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DRAWING TITLE
BUENA VISTA STREET
PLAN AND PROFILE
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65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-113
REV. A

DATE: 6/23/2010
TIME: 2:22:42 PM
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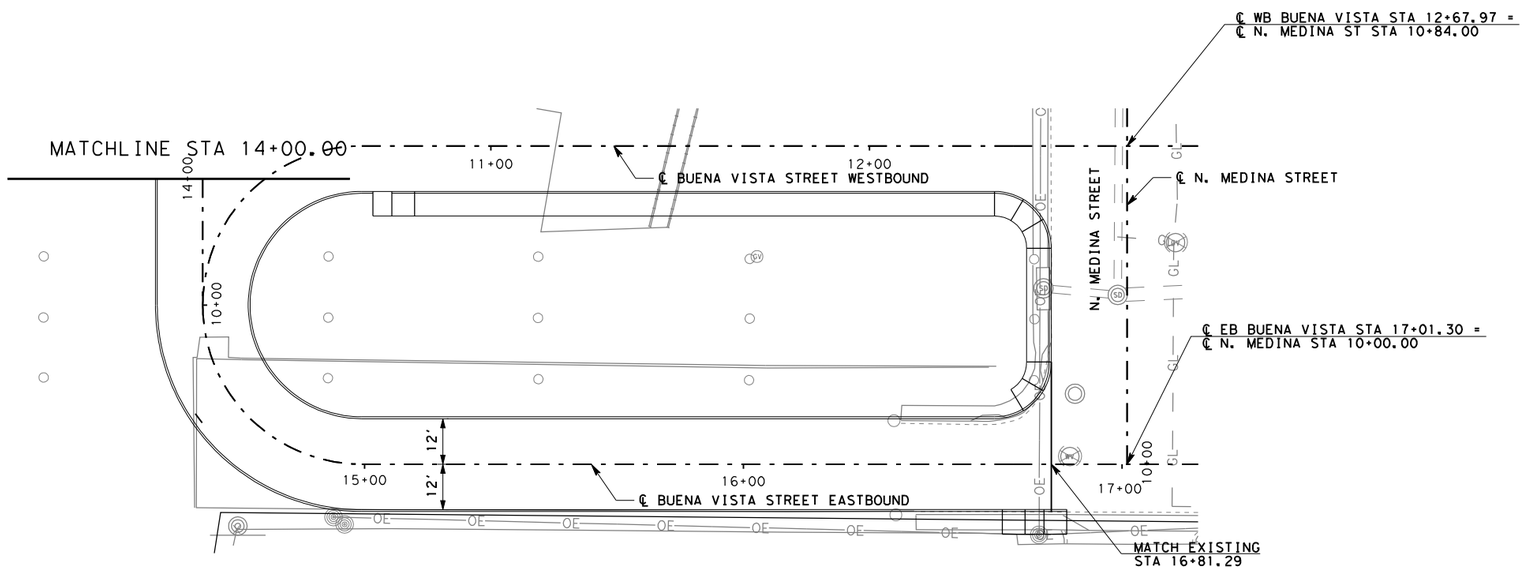

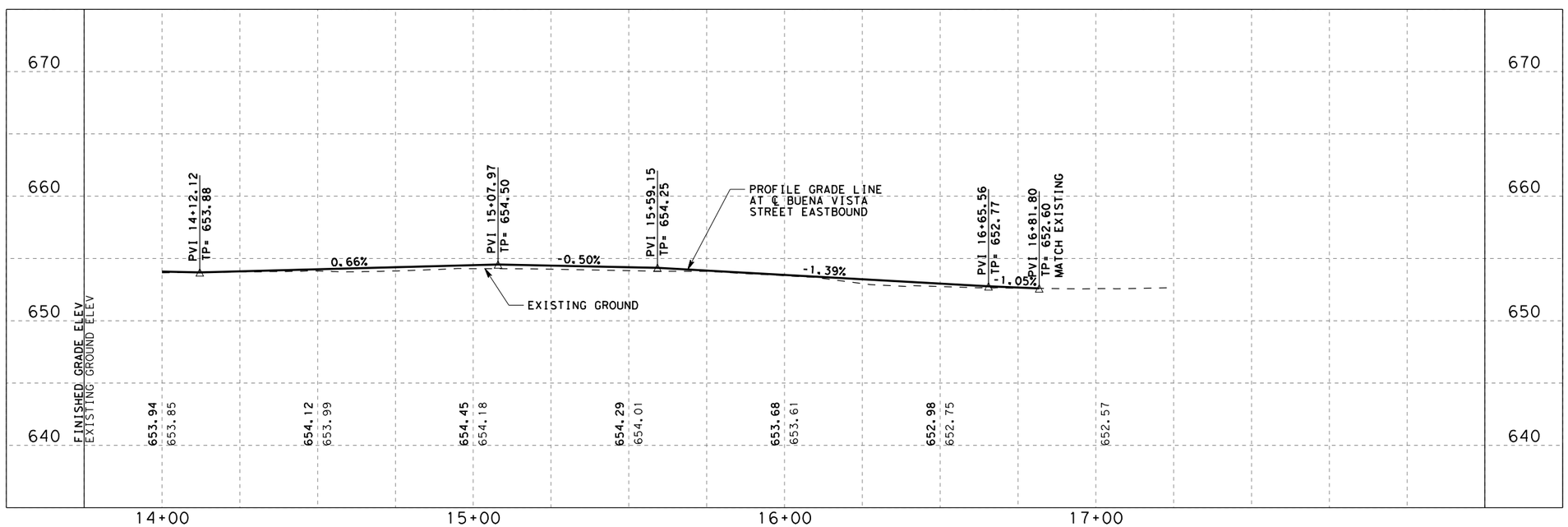

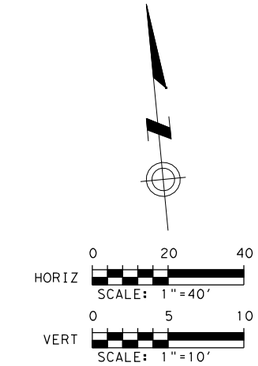

NOTES

1. SEE MULTIMODEL CENTER PLAN LAYOUT SHEET FOR ADDITIONAL INFORMATION.

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65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-114
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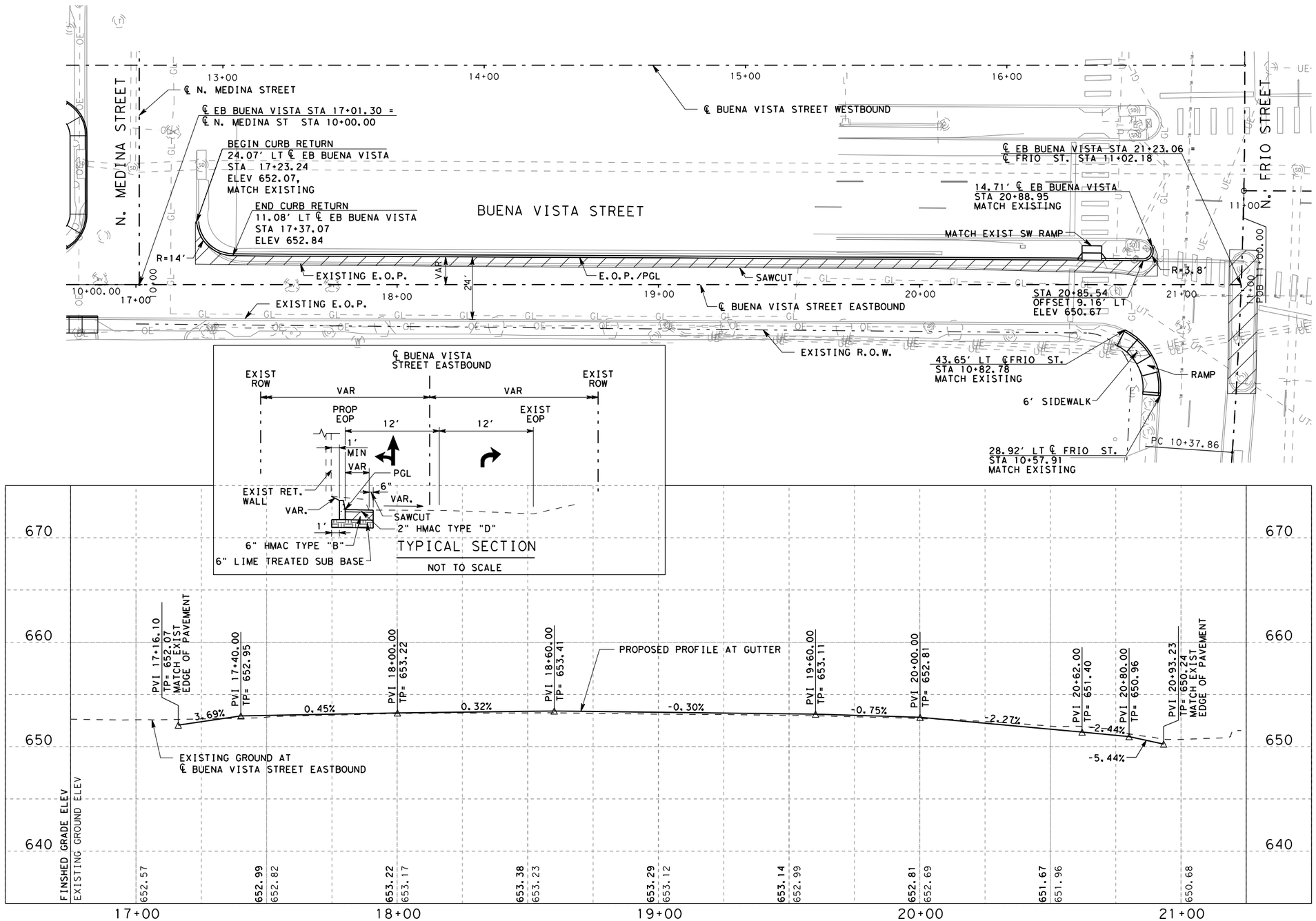

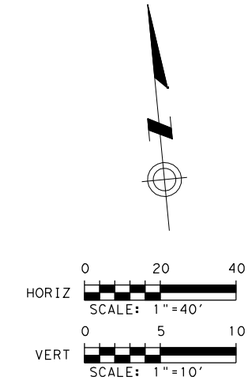

NOTES

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. SIDEWALKS ARE DIMENSIONED TO BACK OF CURB.

LEGEND

PROPOSED ASPHALT PAVEMENT

LIME TREATED SUB BASE

IN PROGRESS

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DRAWING TITLE
BUENA VISTA STREET
PLAN AND PROFILE
STA 17+00 TO STA 21+23

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. C-115
REV. A

FILE: C115*WMTC*RD*PP03.dgn
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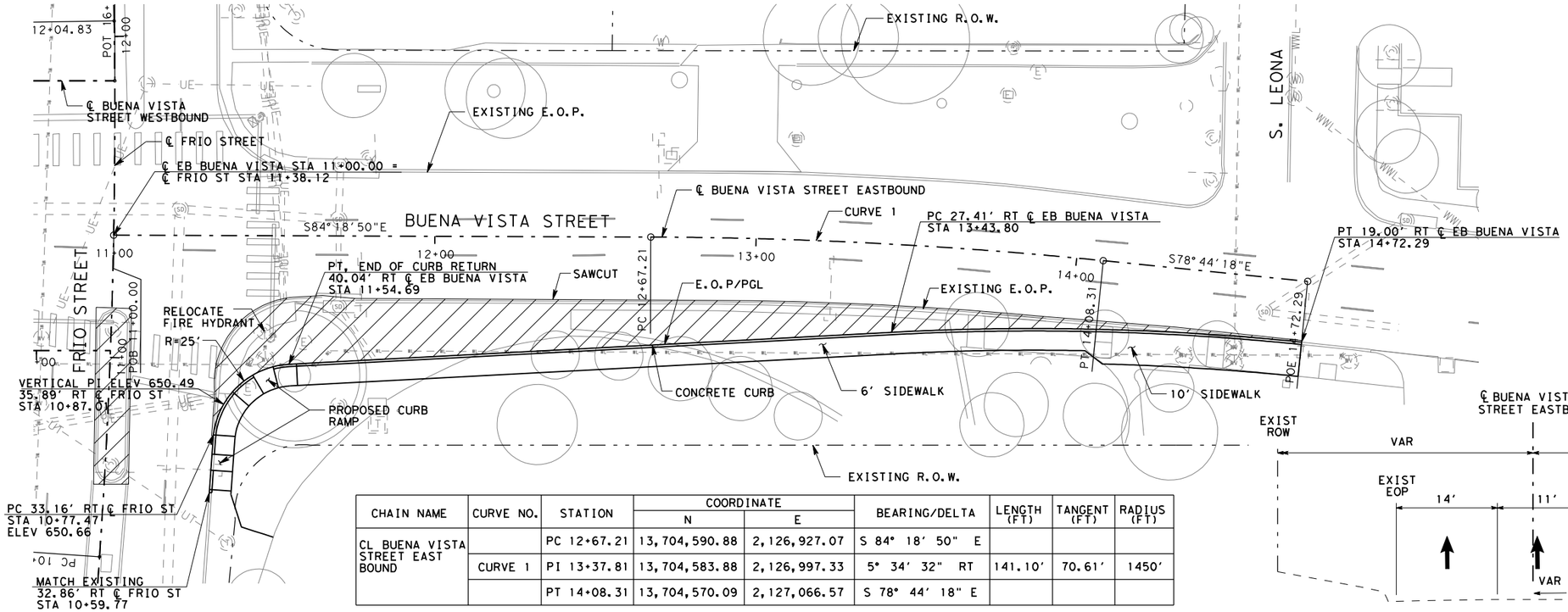
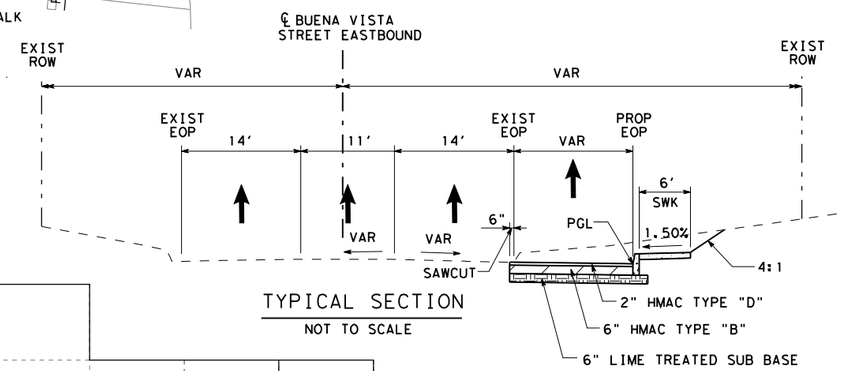
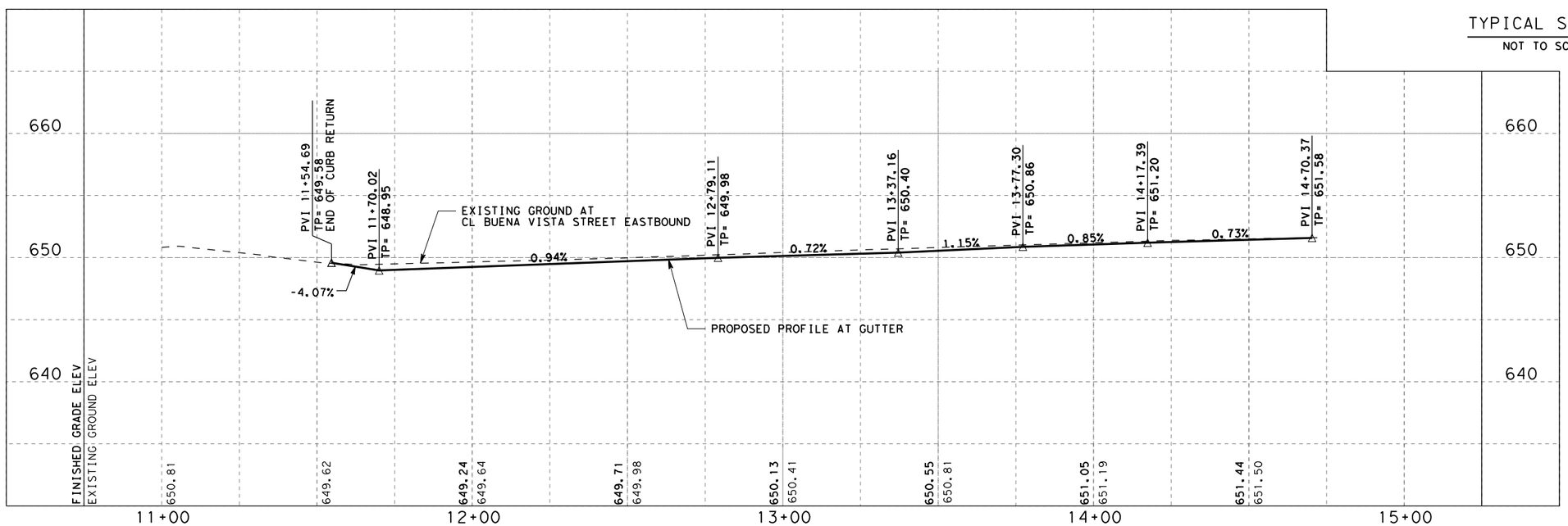


CHAIN NAME	CURVE NO.	STATION	COORDINATE N	COORDINATE E	BEARING/DELTA	LENGTH (FT)	TANGENT (FT)	RADIUS (FT)
CL BUENA VISTA STREET EAST BOUND		PC 12+67.21	13,704,590.88	2,126,927.07	S 84° 18' 50" E			
	CURVE 1	PI 13+37.81	13,704,583.88	2,126,997.33	5° 34' 32" RT	141.10'	70.61'	1450'
		PT 14+08.31	13,704,570.09	2,127,066.57	S 78° 44' 18" E			



TYPICAL SECTION
NOT TO SCALE



LEGEND

- PROPOSED ASPHALT PAVEMENT
- 4" CONCRETE SIDEWALK
- LIME TREATED SUB BASE

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BUENA VISTA STREET PLAN AND PROFILE STA 11+00 TO STA 14+72

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DRAWING NO. C-116
REV. A

DATE: 6/23/2010
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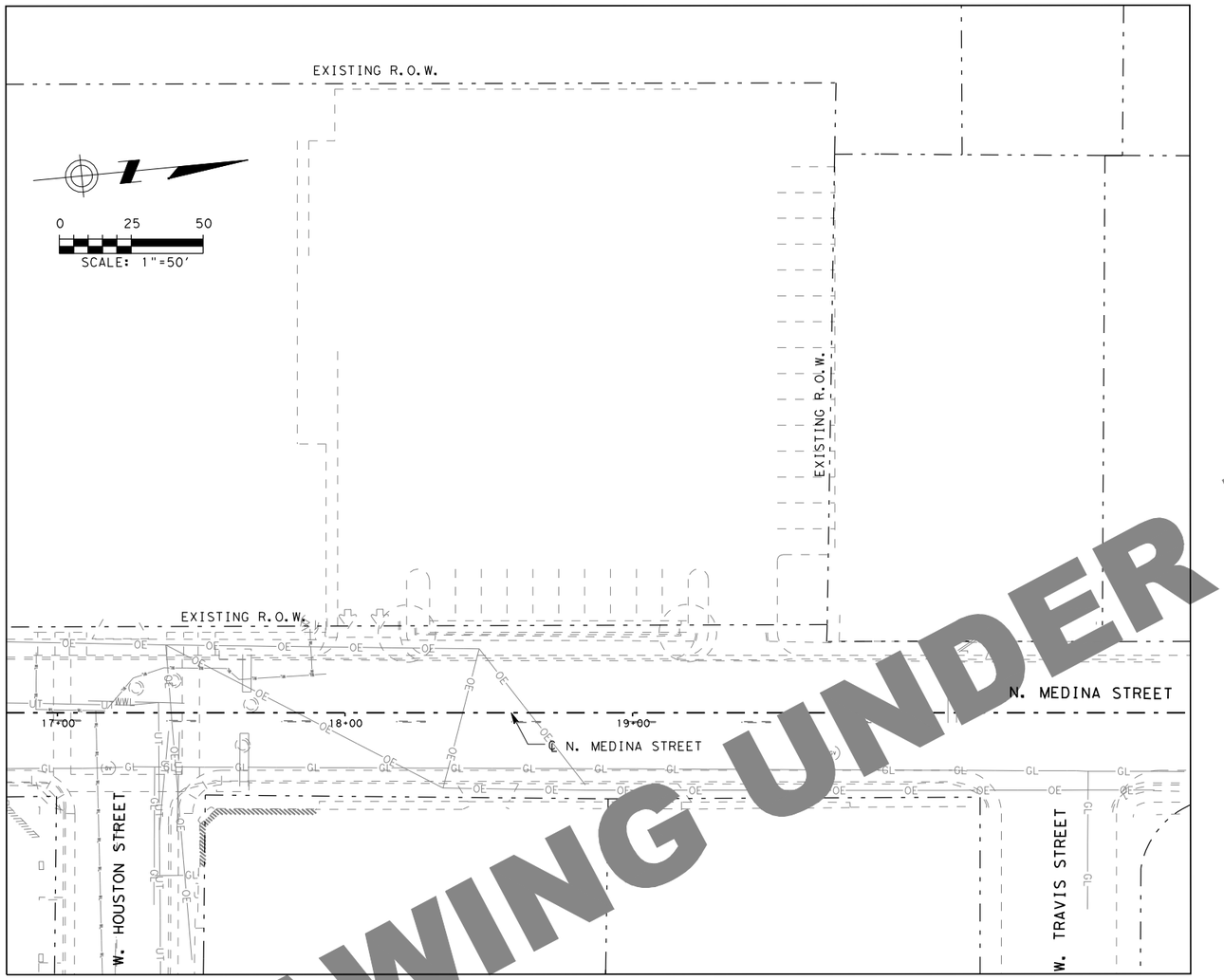
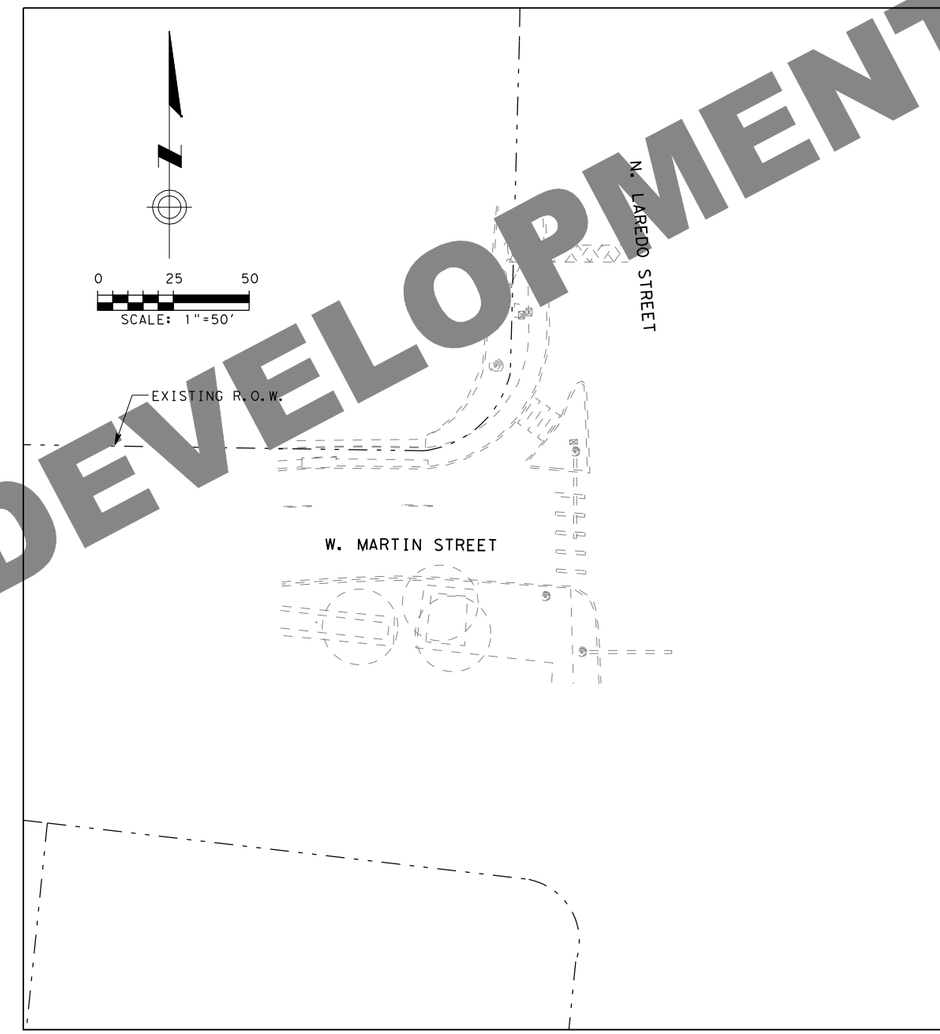


EMPLOYEE PARKING LOT



W. MARTIN ST./LAREDO ST.

DRAWING UNDER DEVELOPMENT

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NOTE

SURVEY DATA NOT YET RECEIVED FOR PARKING LOT

FILE:C117*WWTC*Parking*Laredo
Default
VIA.tbl

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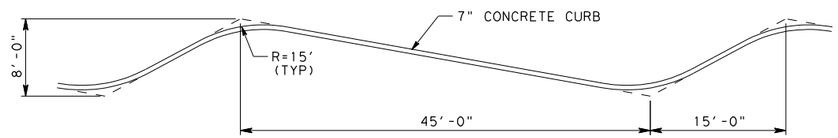
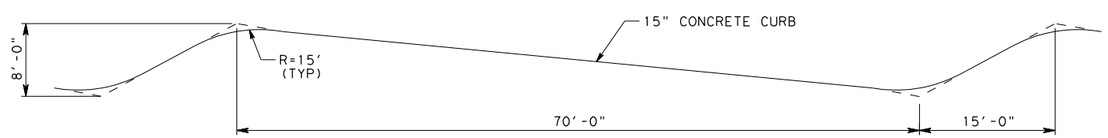


STANDARD BUS BAY DETAIL



ARTICULATED BUS BAY DETAIL

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DRAWING NO. C-118
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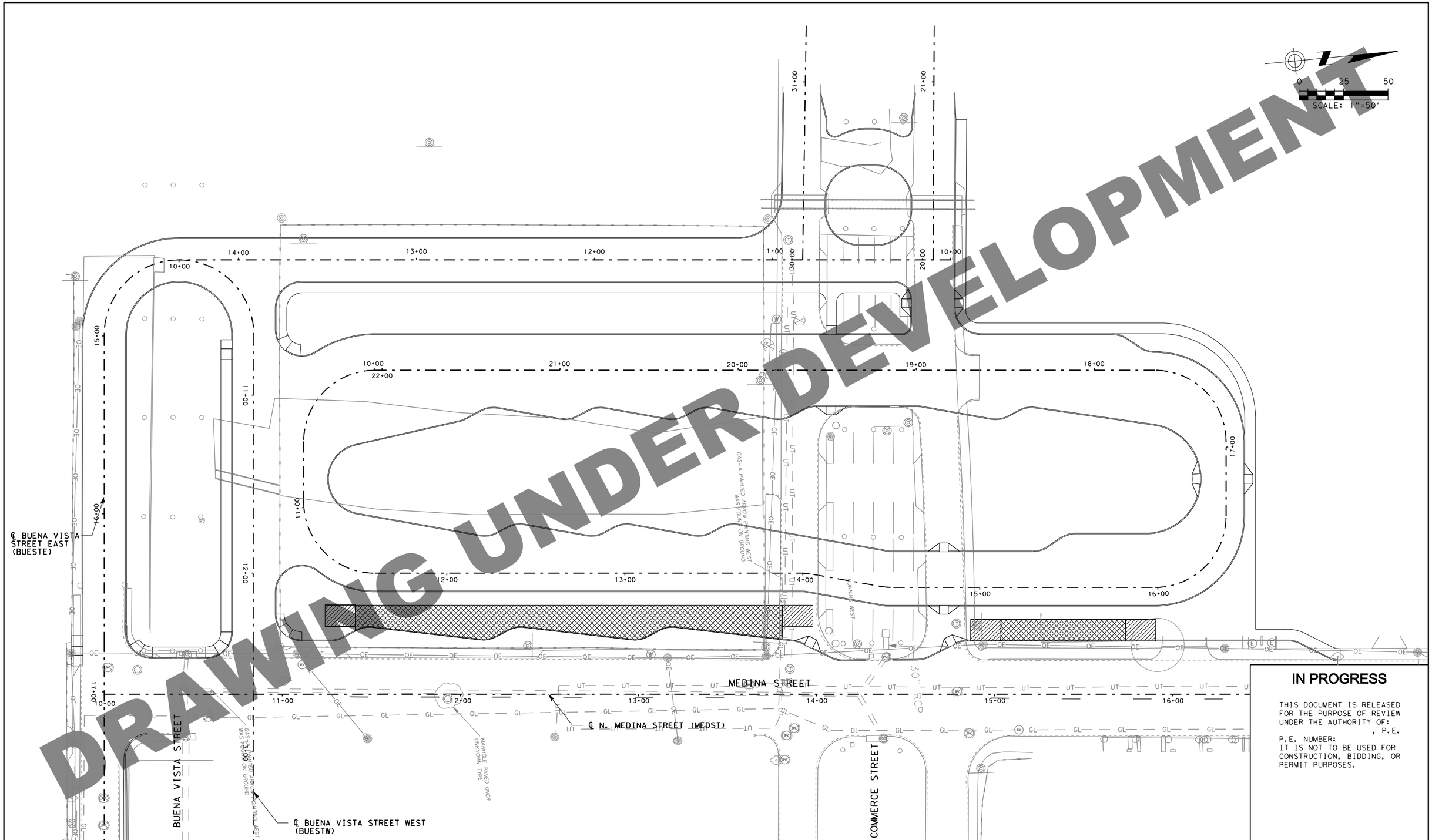
TIME: $TIME$
$USER$



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DRAWING TITLE
UTILITY PLAN

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DRAWING NO. C-119
REV. A

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TIME: 11:27:23 AM
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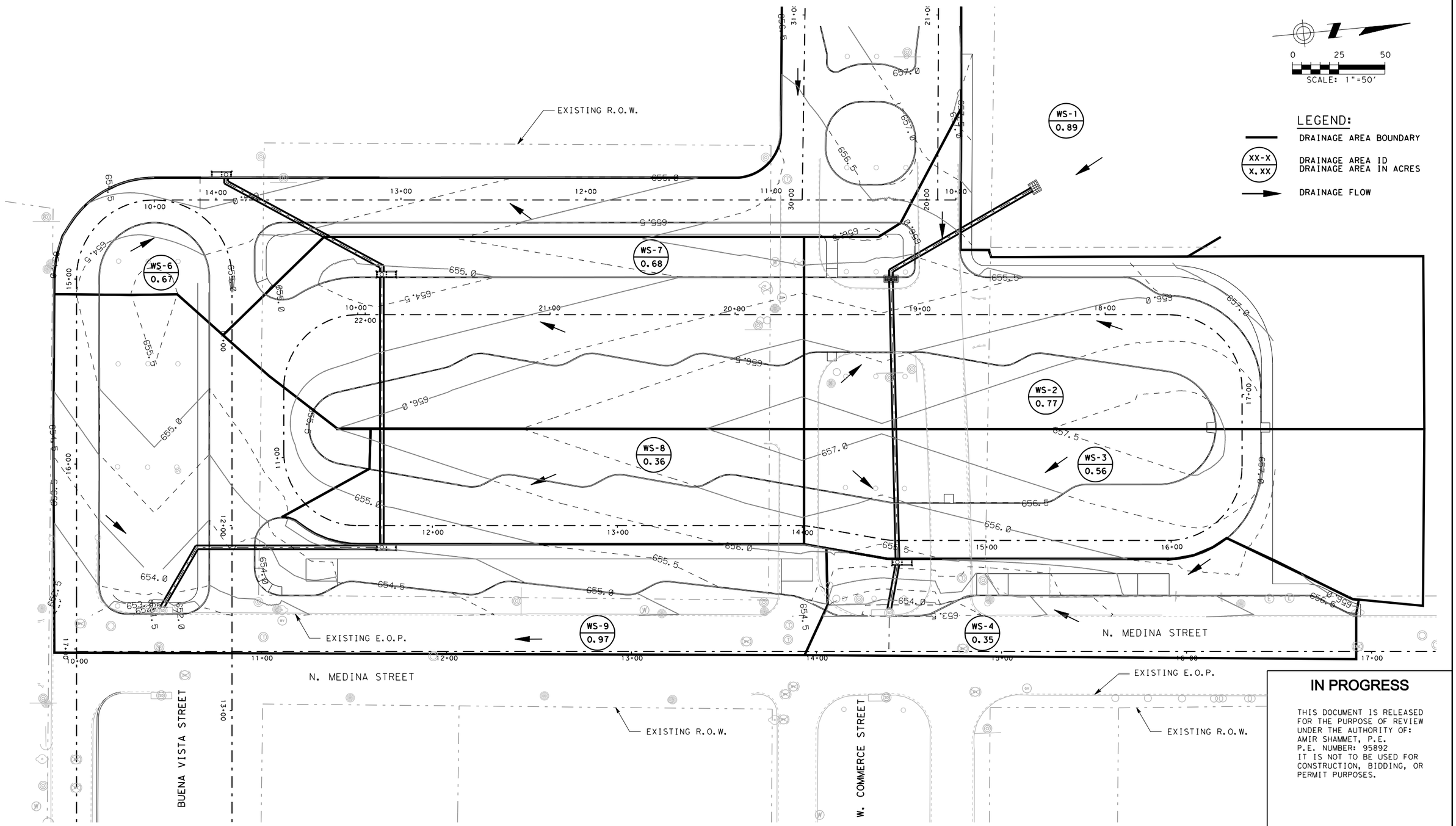

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VIA.tbl

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DRAWING TITLE
DRAINAGE AREA LAYOUT

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. C-201
REV. A

DATE: 6/23/2010
TIME: 11:29:04 AM
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RUNOFF COMPUTATIONS										
AREA - ID	AREA	RUNOFF COEFF.				WEIGHTED C-VALUE	Tc USED	I_{25}	Q_{25}	REMARKS
	(ac)	0.96 (PAV)	0.90 (ASPH)	0.55 (NBG)	0.40 (GRASS)		(min)	(in/hr)	(cfs)	
WS-1	0.89	0.19		0.29	0.42	0.57	5.0	8.76	4.42	TO INLET WS-1
WS-2	0.77	0.54			0.23	0.80	5.0	8.76	5.36	TO INLET WS-2
WS-3	0.56	0.40			0.16	0.80	5.0	8.76	3.93	TO INLET WS-3
WS-4	0.35	0.35				0.96	5.0	8.76	2.94	TO INLET WS-4
WS-6	0.67	0.66			0.01	0.95	5.0	8.76	5.60	TO INLET WS-6
WS-7	0.68	0.54			0.14	0.85	5.0	8.76	5.04	TO INLET WS-7
WS-8	0.36	0.36				0.96	5.0	8.76	3.03	TO INLET WS-8
WS-9	0.97	0.97				0.96	5.0	8.76	8.12	TO INLET WS-9
* BV-1									8.33	TO INLET BV-1

NOTES:
* DATA OBTAINED FROM AS-BUILT PLANS, TxDOT PROJECT NO. CRP 88 (597) M.

INLET COMPUTATIONS															
INLET			DRAINAGE AREA	RUNOFF "Q"	CO	TOTAL Qa	CROSS SLOPE "S"	LONG. SLOPE "SL"	FLOW DEPTH "y"	PONDED WIDTH ALLOWD.	PONDED WIDTH CALC.	ACTUAL LENGTH "L"	INTERCP. FLOW "Qi"	BY PASS FLOW (Qa-Qi)	CARRYOVER TO
NODE ID	NODE TYPE	NODE LOCATION	(ac)	(cfs)	(cfs	(cfs)	(ft/ft)	(ft/ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	
WS-1	GI AT SAG	STA 18+38.0, 69' RT	0.89	4.42	0.00	4.42	0.0200	0.0050	0.28		10.50	10.00	4.42		
WS-2	CGI AT SAG	STA 19+16.0, 20' RT	0.77	5.36	0.00	5.36	0.0200	0.0050	0.41	12.00	11.30	6.33	5.36		
WS-3	CI AT SAG	STA 15+45.0, 10' RT	0.56	3.93	0.00	3.93	0.0200	0.0050	0.26	12.00	10.05	10.00	3.93		
WS-4	CI AT SAG - EX	STA 14+35.0, 19' LT	0.35	2.94	0.00	2.94	0.0200	0.0050	0.22	12.00	9.00	10.00	2.94		
WS-6	CI AT SAG	STA 13+97.0, 12' RT	0.67	5.60	0.00	5.60	0.0200	0.0050	0.33	12.00	11.50	10.00	5.60		
WS-7	CI AT SAG	STA 21+88.0, 20' RT	0.68	5.04	0.00	5.04	0.0200	0.0050	0.31	12.00	11.05	10.00	5.04		
WS-8	CI AT SAG	STA 11+75.0, 10' RT	0.36	3.03	0.00	3.03	0.0200	0.0050	0.31	12.00	9.10	5.00	3.03		
WS-9	CI AT SAG- EX	STA 10+46.0, 20' LT	0.97	8.12	0.00	8.12	0.0200	0.0050	0.43	12.00	13.20	10.00	8.12		
[2] BV-1	CI AT SAG	STA 11+70.0, 39' RT		8.33		8.33	0.0142	0.0094	0.43	12.00	18.31	10.00	8.33		

NOTE:
1. STATION AND OFFSET IS AT CENTER OF MANHOLE, AT CENTER OF GRATE INLET, AT CENTER FACE OF CURB OF CURB INLET AND COMBINATION INLET.
2. RUNOFFF FOR BV-1 IS OBTAINED FROM AS-BUILT PLANS, TxDOT PROJECT NO. CRP 88 (597) M.

STORM SEWER COMPUTATIONS												
LINE ID	NODE UPSTREAM		NODE DOWNSTREAM		Q_{25}	PIPE SIZE	PIPE LENGTH	SLOPE	ACTUAL VELOCITY	UPSTREAM INVERT	DOWNSTREAM INVERT	CAPACITY
	ID	LOCATION	ID	LOCATION	(cfs)	(in)	(ft)	(%)	(ft/sec)	(ft)	(ft)	(cfs)
LINE C	WS-1	STA 18+38.0, 69' RT	JNT-1	STA 19+16.0, 24' RT	4.42	24	88.0	1.00	3.40	650.80	649.92	22.63
	JNT-1	STA 19+16.0, 24' RT	WS-2	STA 19+16.0, 20' RT	4.42	24	6.0	1.00	3.12	649.92	649.86	22.63
	WS-2	STA 19+16.0, 20' RT	WS-3	STA 15+45.0, 10' RT	9.78	24	151.0	1.00	3.18	649.86	648.35	22.63
	WS-3	STA 15+45.0, 10' RT	WS-4	STA 14+35.0, 19' LT	13.71	24	25.0	1.00	4.36	648.35	648.10	22.63
*	WS-4	STA 14+35.0, 19' LT	EX JB	STA 14+39.0, 18' LT	16.64	24	26.0	0.35	5.30	648.10	648.01	13.31
LINE D	WS-6	STA 13+97.0, 12' RT	JNT-6	STA 13+95.0, 9.5' RT	5.60	24	3.0	0.35	4.04	649.75	649.74	13.39
	JNT-6	STA 13+95.0, 9.5' RT	JNT-7	STA 21+91.0, 26' RT	5.60	24	96.0	0.35	3.39	649.74	649.41	13.39
	JNT-7	STA 21+91.0, 26' RT	WS-7	STA 21+88.0, 20' RT	5.60	24	3.0	0.35	3.35	649.41	649.40	13.39
	WS-7	STA 21+88.0, 20' RT	WS-8	STA 11+75.0, 10' RT	10.64	24	145.0	0.75	5.23	649.40	648.31	19.59
	WS-8	STA 11+75.0, 10' RT	JNT-8	STA 12+12.0, 19' RT	13.67	24	97.5	0.75	5.13	648.31	647.58	19.59
	JNT-8	STA 12+12.0, 19' RT	WS-9	STA 10+46.0, 20' LT	13.67	24	37.5	0.50	4.88	647.58	647.39	16.00
*	WS-9	STA 10+46.0, 20' LT	EX MH	STA 10+44.7, 2.6' LT	21.79	24	15.0	13.32	6.94	647.39	645.41	82.56
LAT BV-1	BV-1	STA 11+70.0, 39 RT	MOD JB	STA 11+70.0, 24' RT	8.33	18	16.0	5.01	8.30	645.47	644.67	23.51

NOTES:
* FOR INFORMATION ONLY. DATA PROVIDED FOR EXISTING RCP CAPACITY CHECK.

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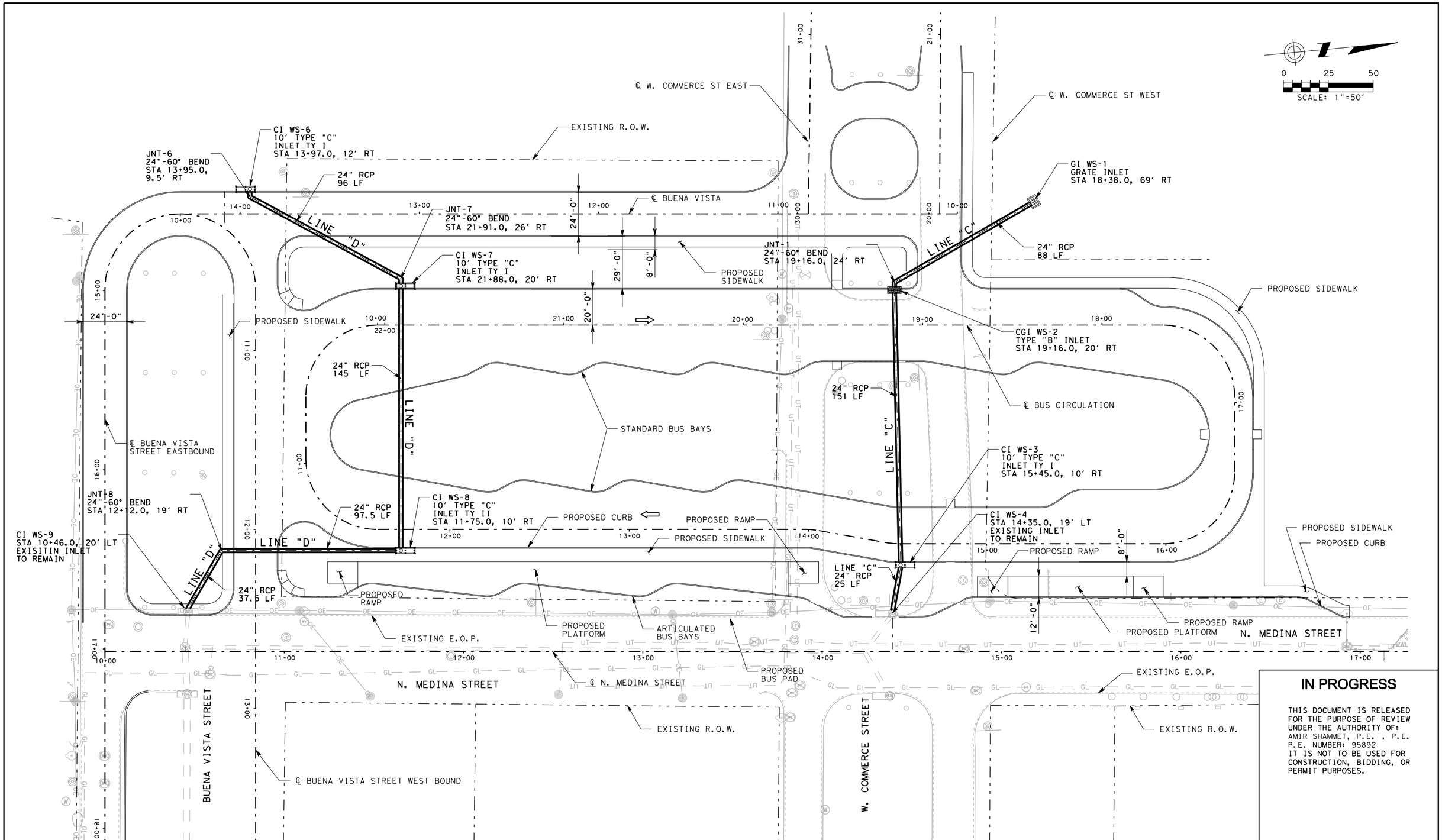

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DRAWING TITLE
DRAINAGE PLAN
LINES C & D

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. C-203
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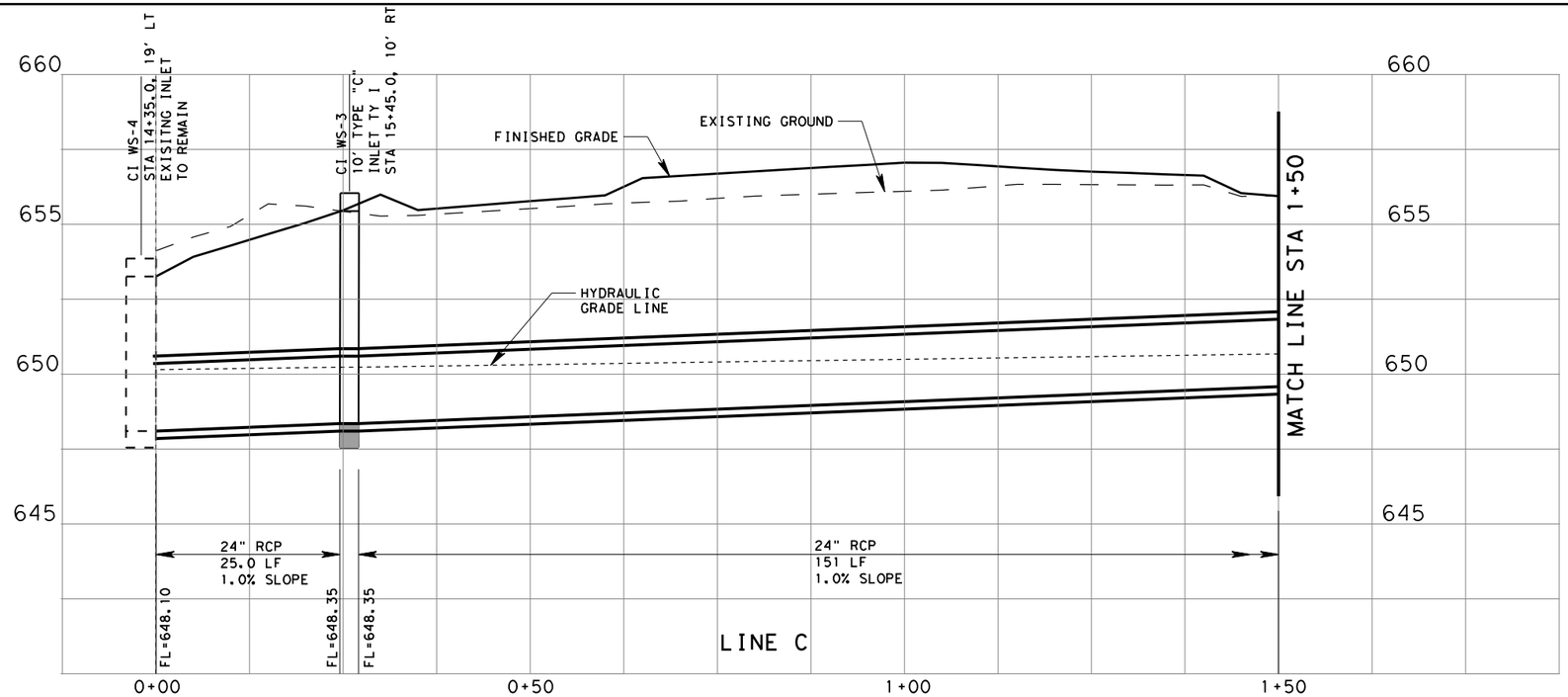

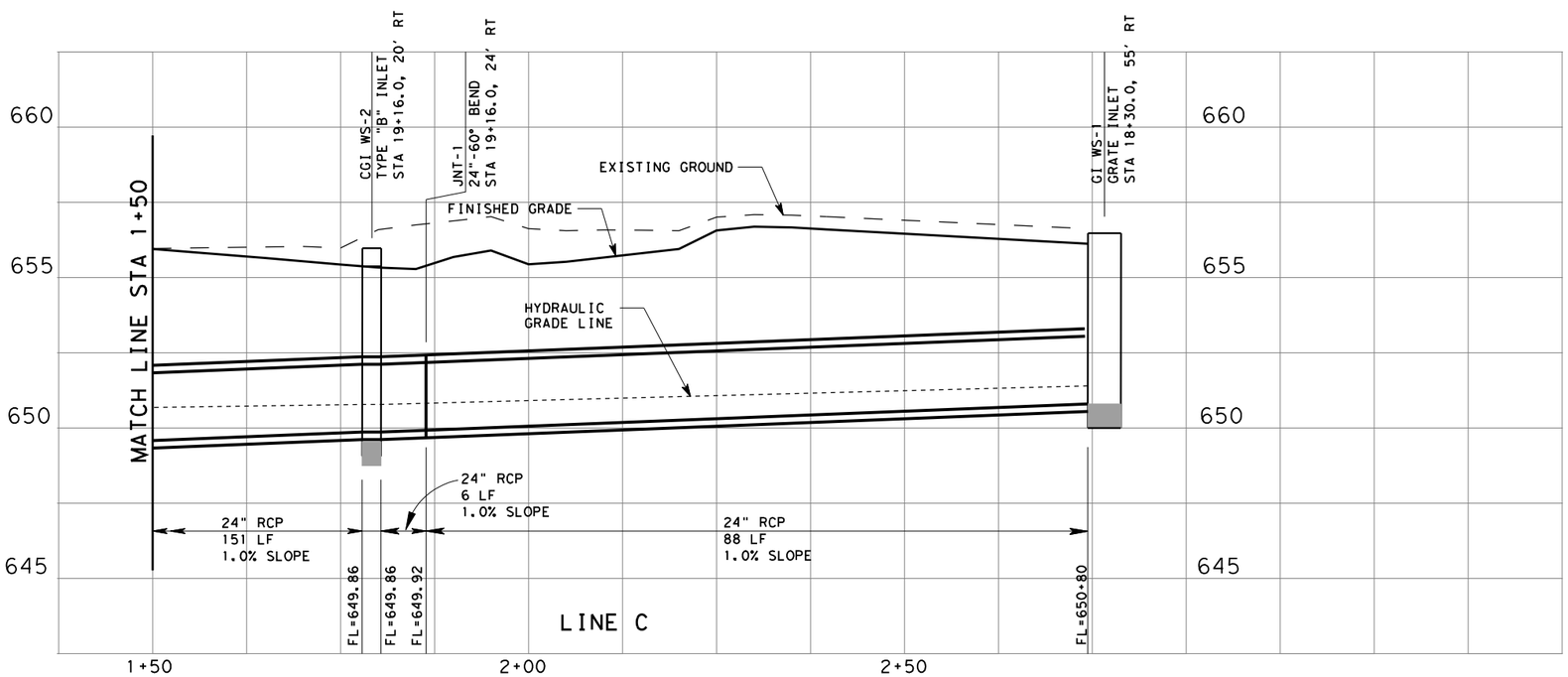

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SCALE: 1"=40'

VERT 0 2.5 5
SCALE: 1"=5'

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DRAWING TITLE: DRAINAGE PROFILE
LINE C
65% DOCUMENTS
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REV. A

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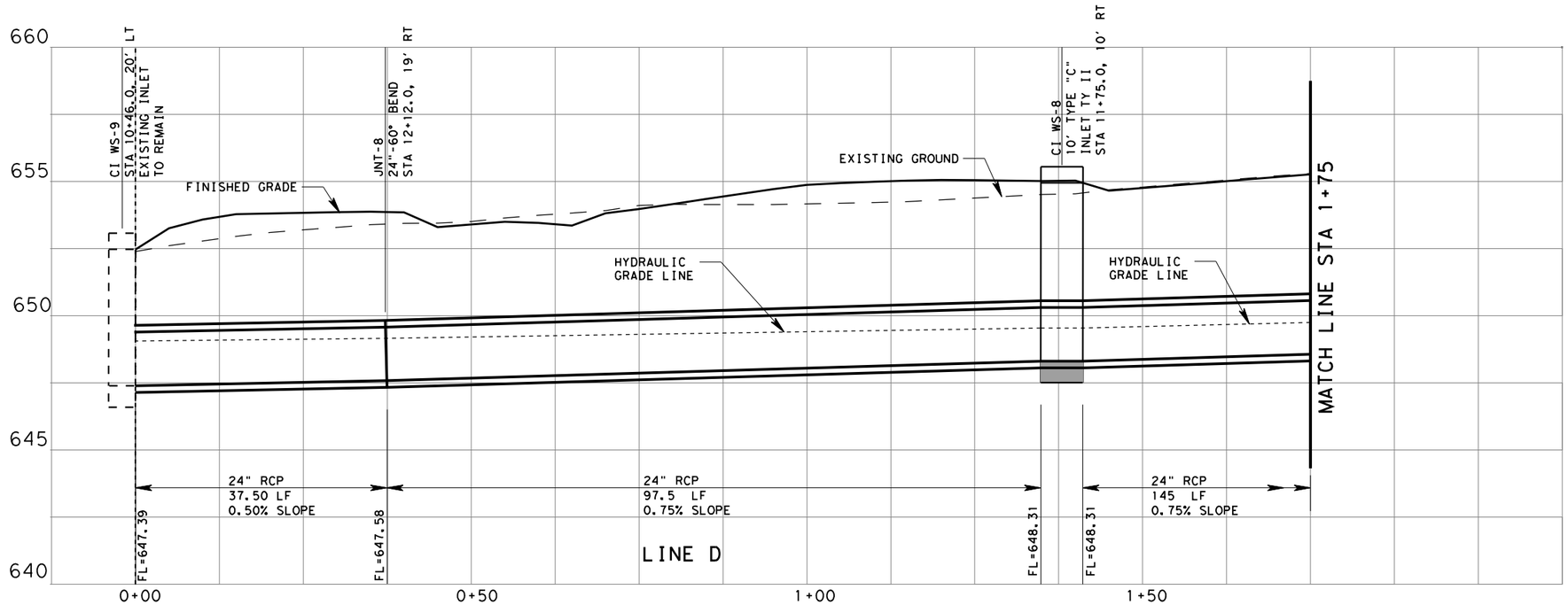

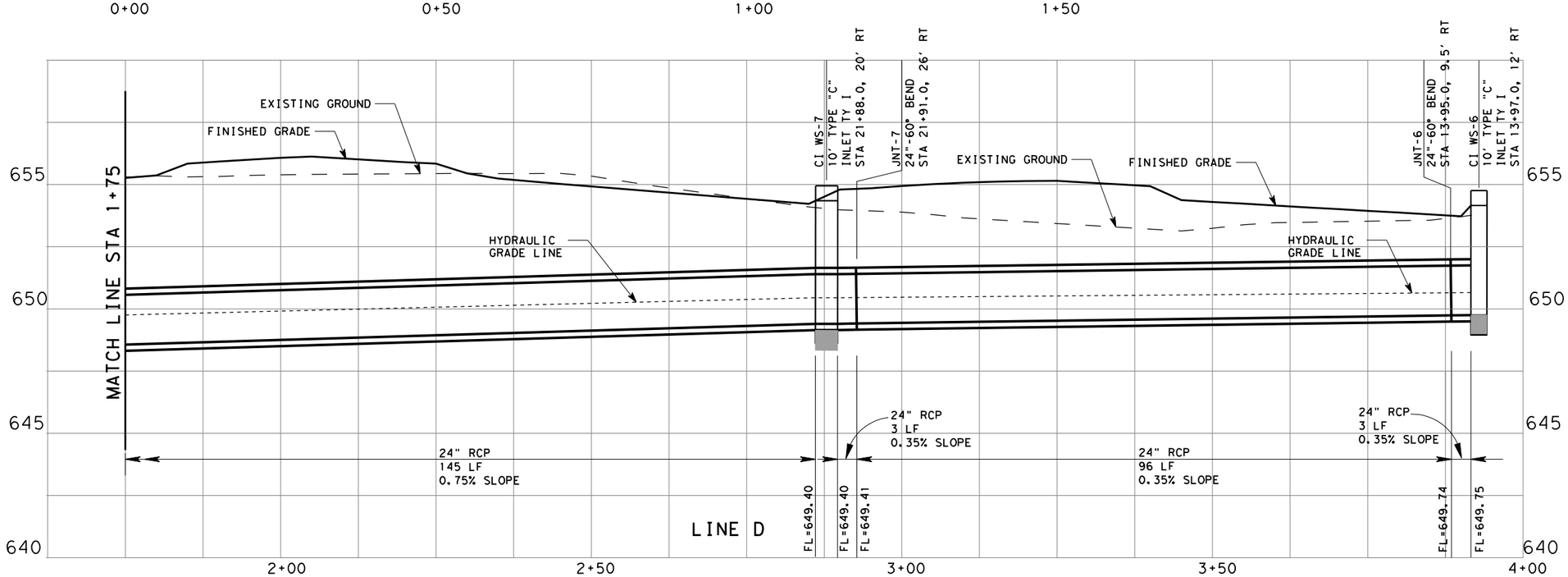

HORIZ 0 20 40
SCALE: 1"=40'

VERT 0 2.5 5
SCALE: 1"=5'

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DATE: 6/23/2010
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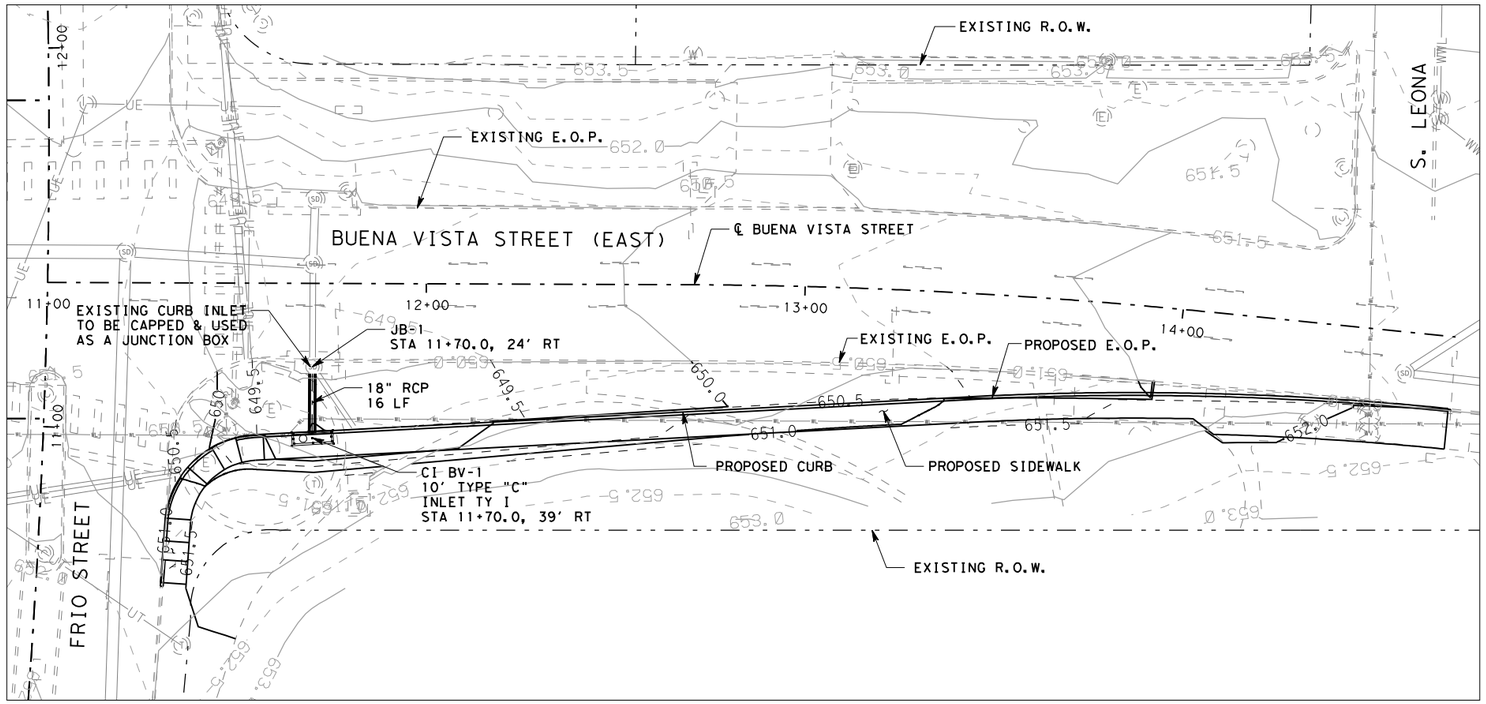

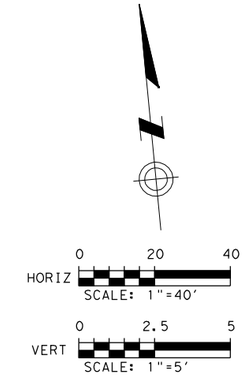

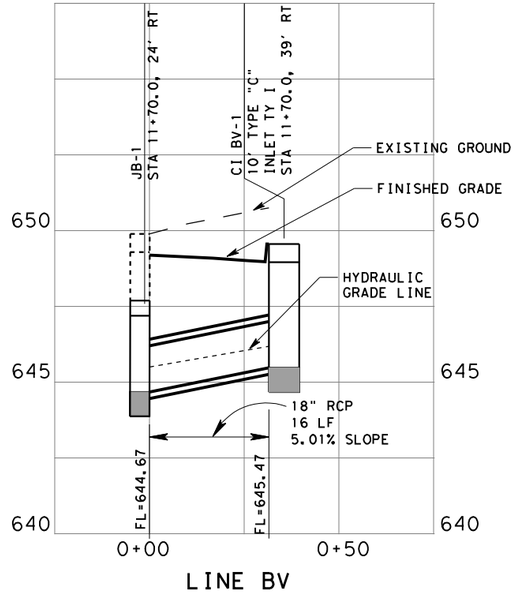

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FILE: C206*VIA*DRN*PP*WMTC.dgn
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VIA.tbl

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MISCELLANEOUS DETAILS

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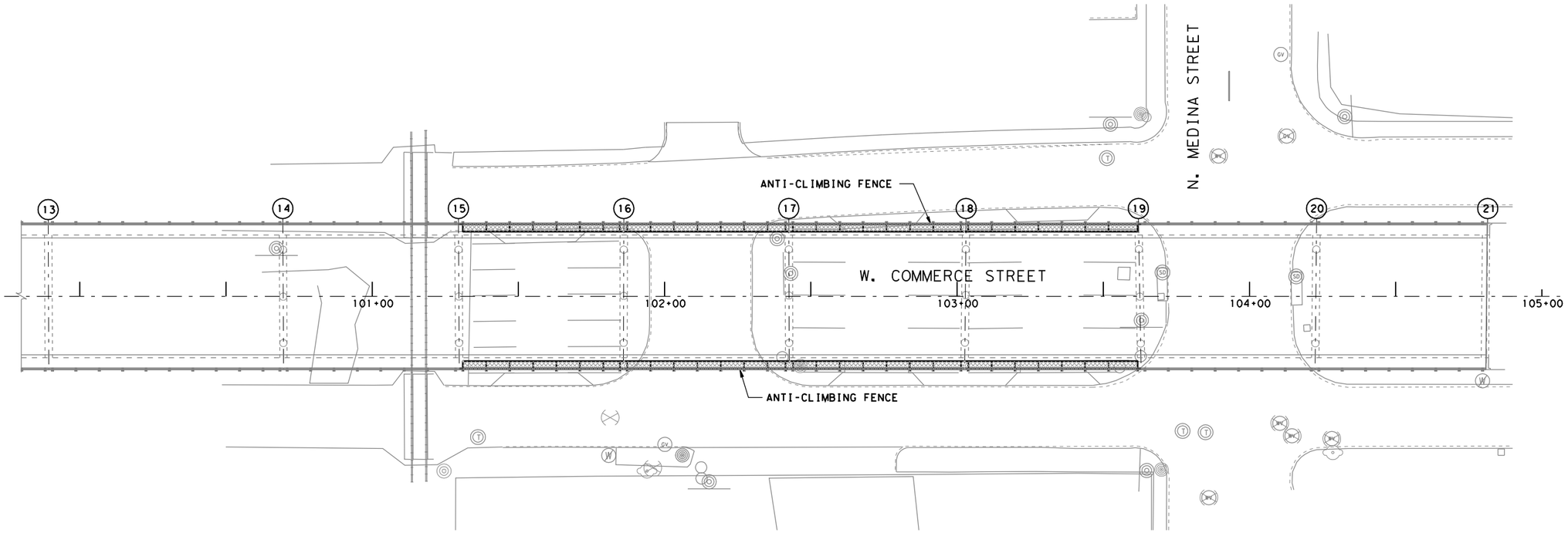
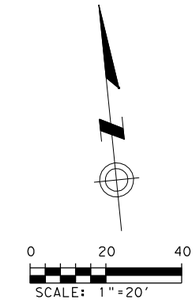
REV. A

DATE: June 24, 2010 at 09:04 AM Thur
TIME: 9:04:09 AM
Printed by: p0047512

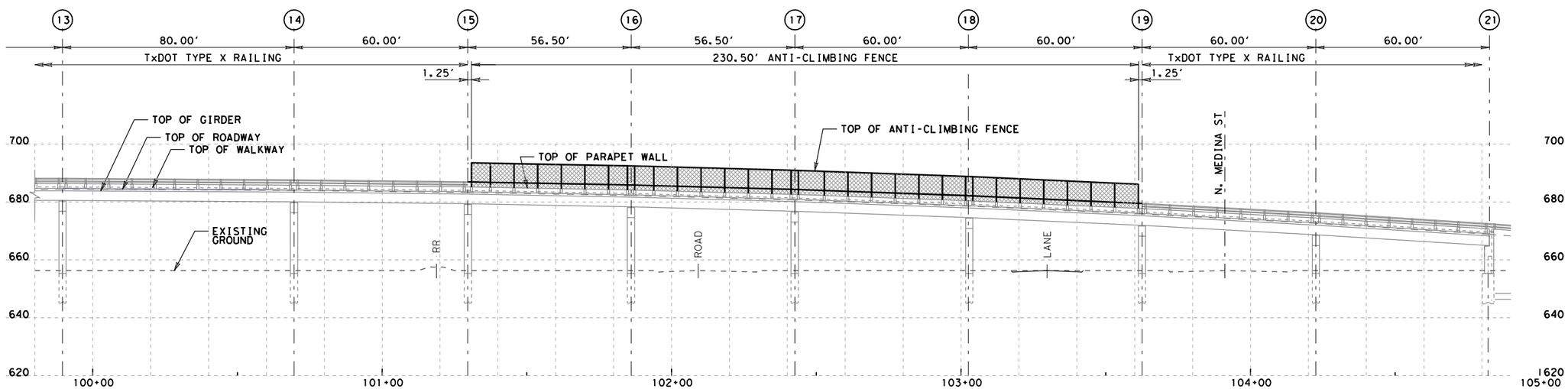


PLAN
SCALE: 1" = 20'-0"



NOTES

1. THE EXISTING BRIDGE STRUCTURES ARE APPROXIMATE AND DRAWN PER THE AS-BUILT PLANS DATED: AUGUST 1956
2. DIMESIONS SHOWN ARE APPROXIMATE AND FIELD-VERIFICATION IS REQUIRED PRIOR TO FABRICATION OF THE FENCES.



ELEVATION
SCALE: 1" = 20'-0"

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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE PLAN & ELEVATION

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DRAWING NO. C-301
REV. A

FILE:WSMTC*BR*PP*C301.DGN
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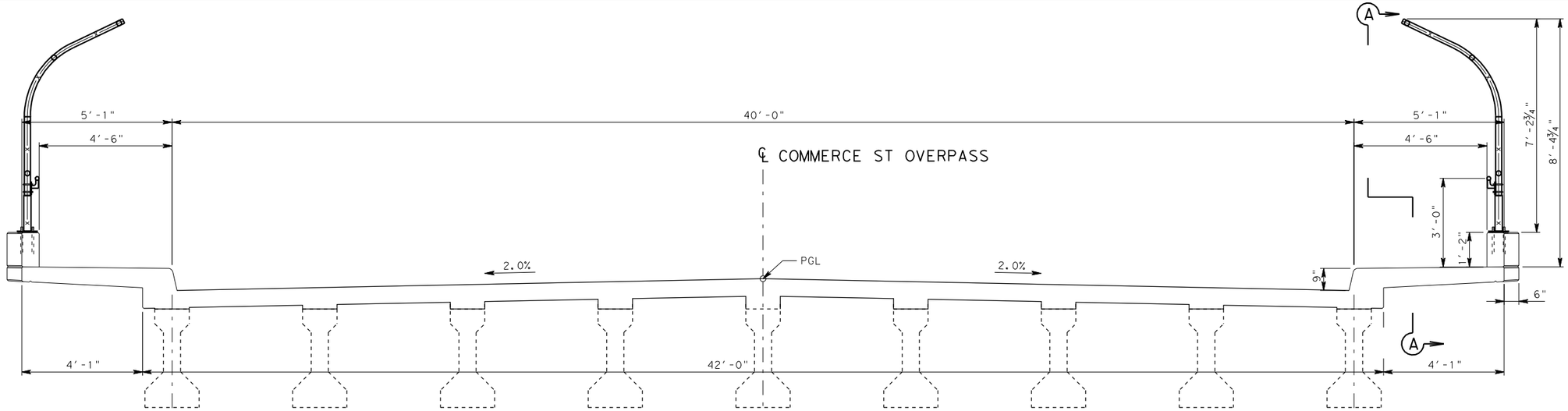
VIA.tbl

DATE: June 24, 2010 at 09:10 AM Thur
TIME: 9:10:26 AM
Printed by: p0047512



PROPOSED TYPICAL SECTION

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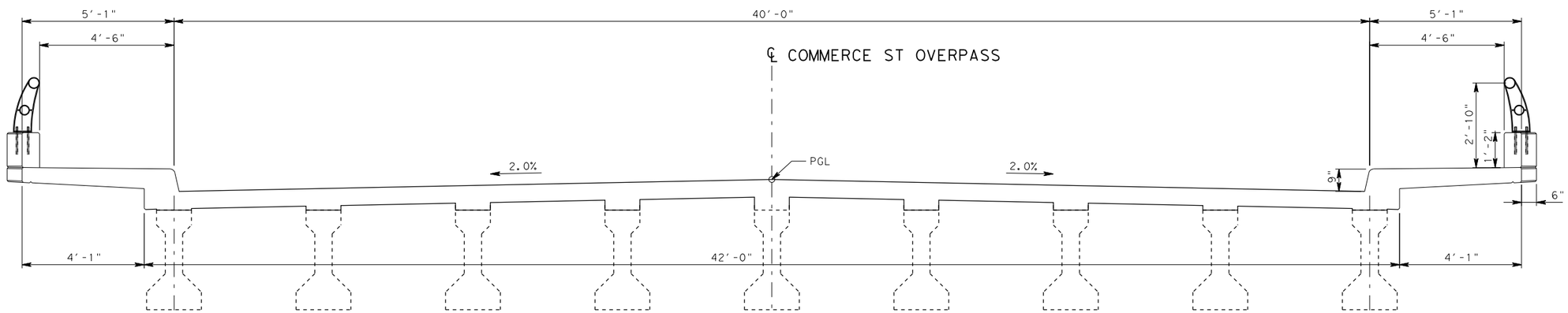
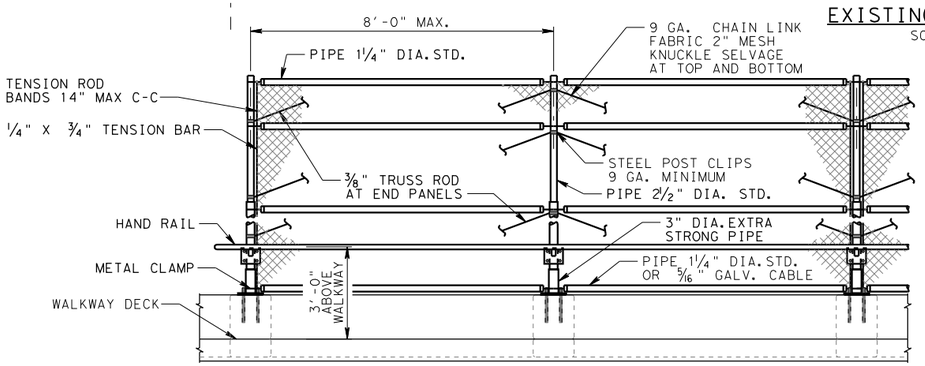


EXISTING TYPICAL SECTION

SCALE: ¼" = 1'-0"



ELEVATIONS A-A

SCALE: ¼" = 1'-0"

NOTES

1. THE NUMBER OF BEAMS VARIES PENDING ON THE SPAN LENGTH. BEAMS SHOWN ARE FOR ILLUSTRATION ONLY.

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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE TYPICAL SECTIONS

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REV. A

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FILE: WSMTC*BR*DEM*C303.dgn
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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE EXISTING RAILING DEMOLITION

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DRAWING NO. C-303
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FILE: WSMTC*BR*DET01*C304.dgn
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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE EXISTING DECK REPAIR & PROCEDURES

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REV. A

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TIME: $TIME$
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$MODELNAME$
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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE EXISTING DECK REPAIR DETAILS

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DRAWING NO. C-305
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DATE: June 24, 2010 at 09:15 AM Thur
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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE FENCE LAYOUT

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DRAWING NO. C-306
REV. A

DATE: June 24, 2010 at 09:19 AM Thur
TIME: 9:19:21 AM
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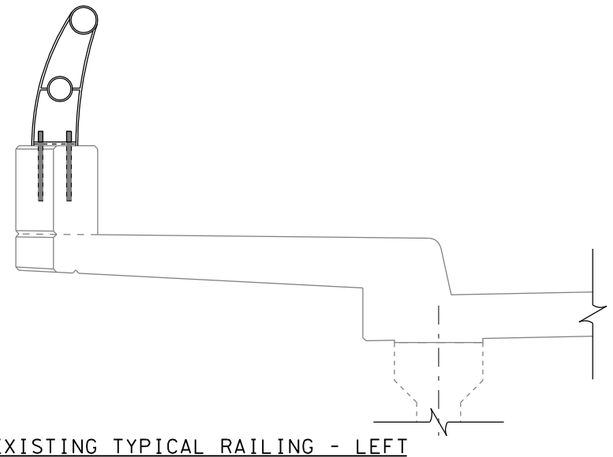

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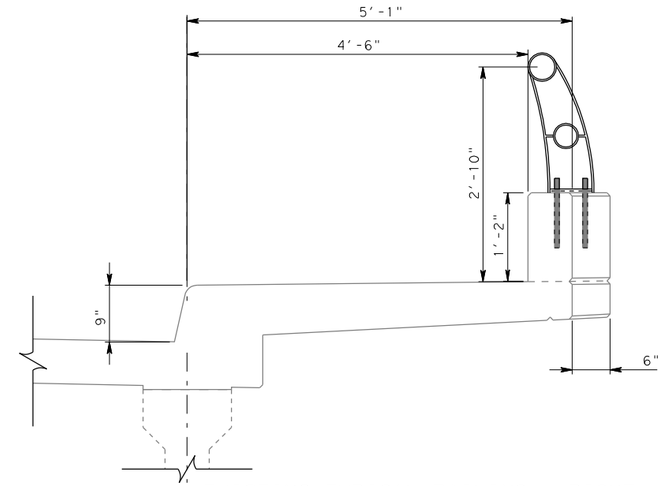
SCALE: 1/2" = 1'-0"



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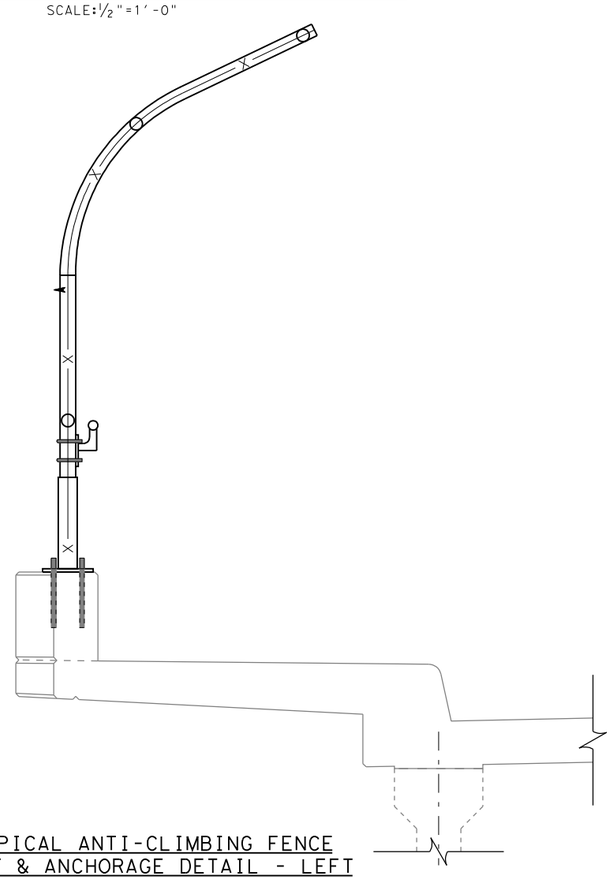
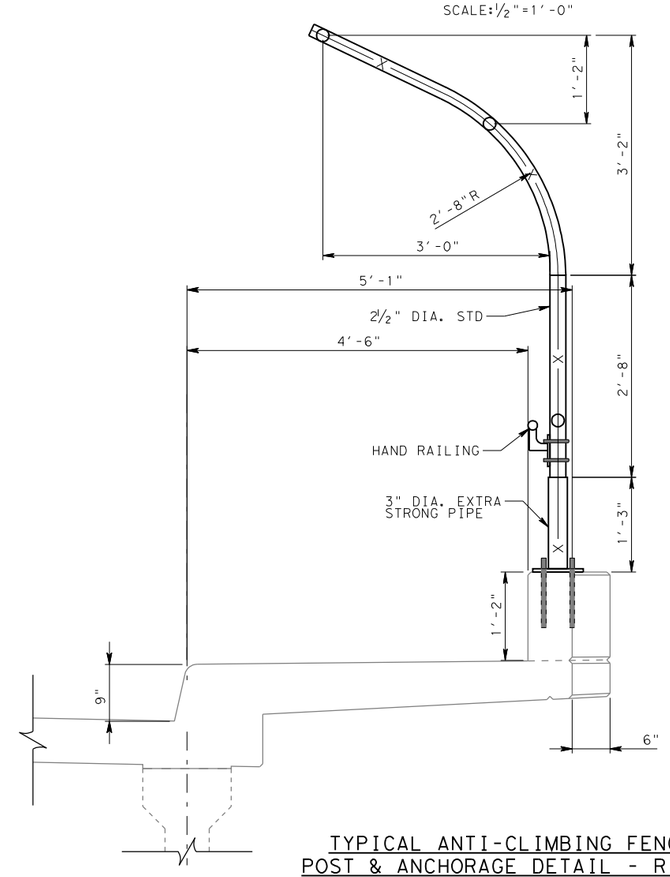
SCALE: 1/2" = 1'-0"



TYPICAL ANTI-CLIMBING FENCE
POST & ANCHORAGE DETAIL - LEFT
SCALE: 1/2" = 1'-0"



1/2" = 1'-0"

TYPICAL ANTI-CLIMBING FENCE
POST & ANCHORAGE DETAIL - RIGHT
SCALE: 1/2" = 1'-0"

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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE FENCE DETAILS - 1
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FILE: WSMTC*BR*DET*C308.dgn
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VIA.tbl

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DRAWING TITLE
ANTI-CLIMBING FENCE AT COMMERCE STREET BRIDGE
FENCE DETAILS - 2

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TIME: 2:25:13 PM
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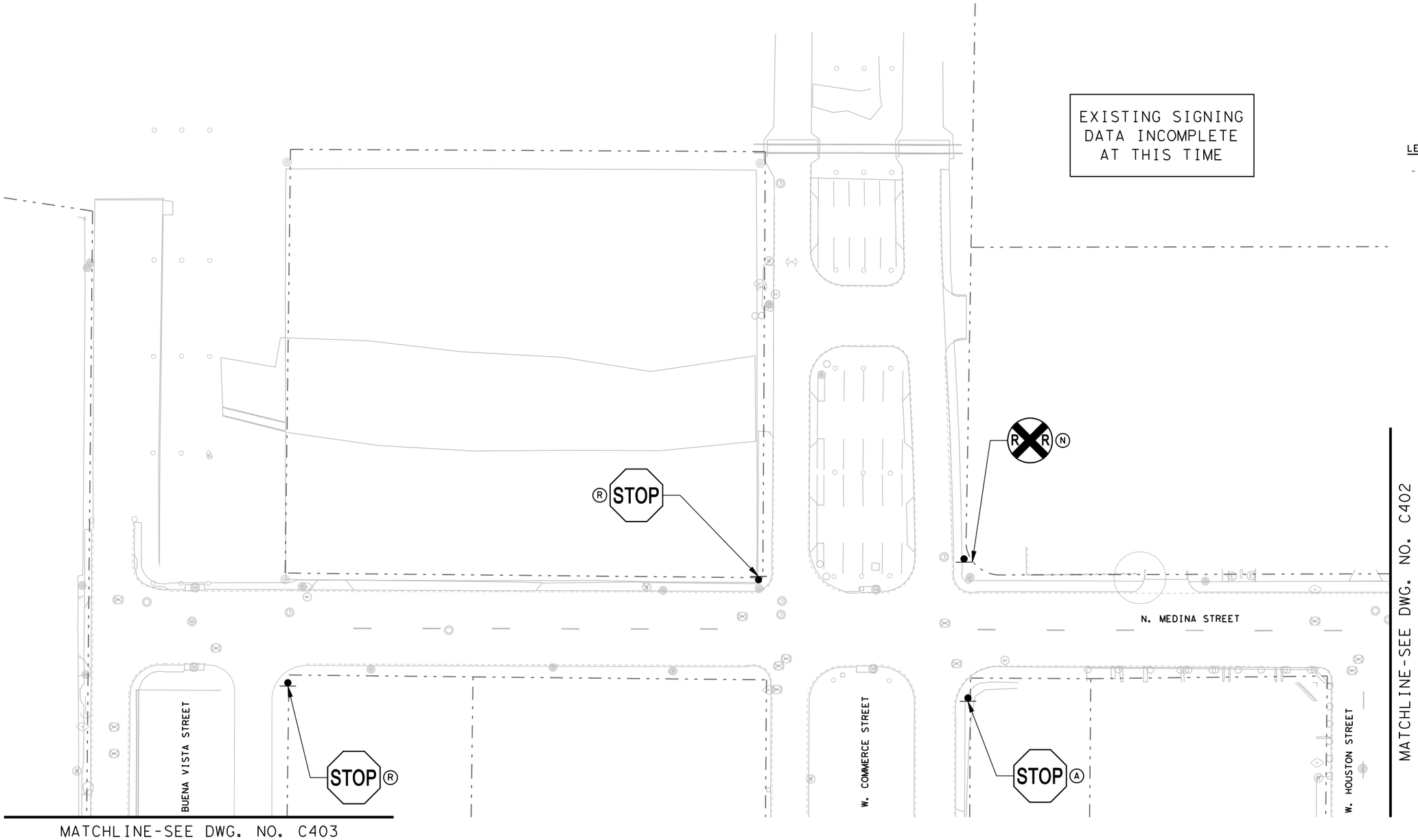

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TRANSIT CENTER
EXISTING SIGNING PLAN
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-401
REV. A

DATE: 6/23/2010
TIME: 2:25:41 PM
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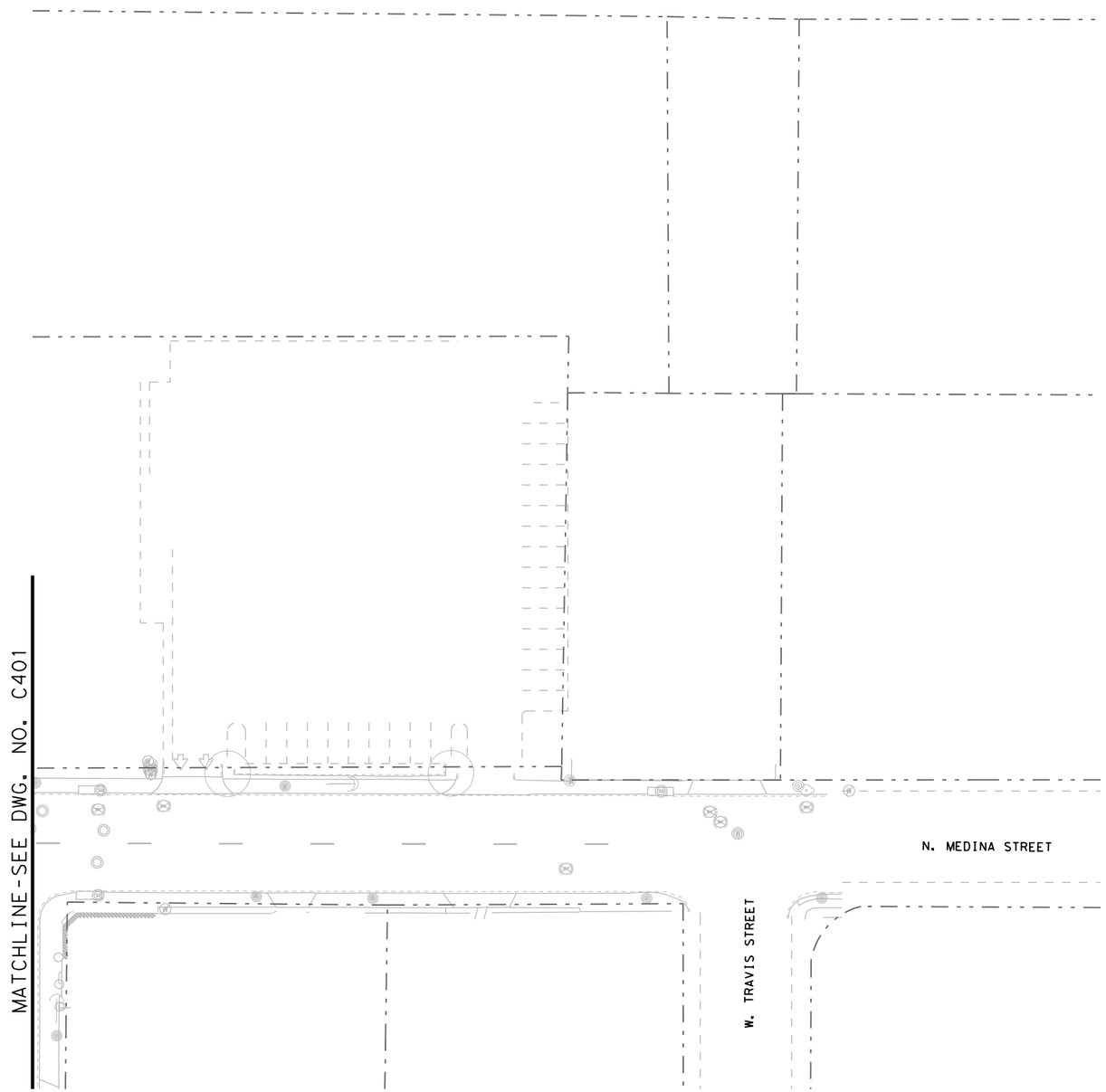


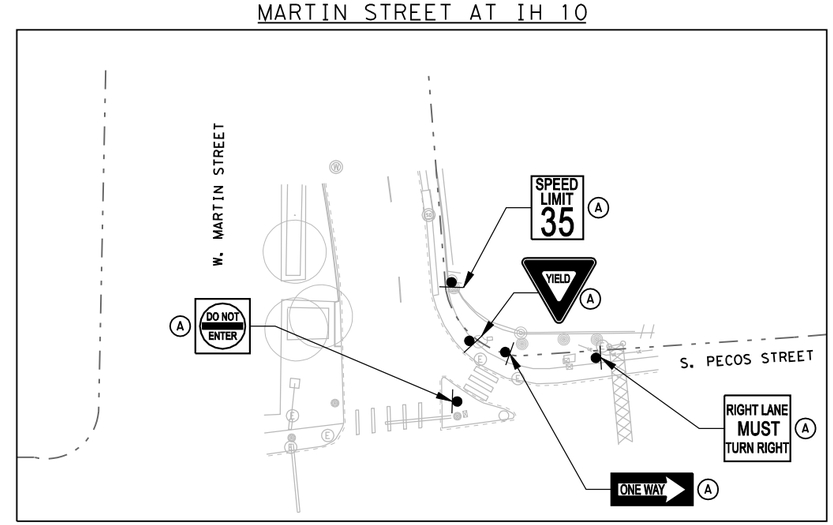
EXISTING SIGNING DATA INCOMPLETE AT THIS TIME

0 30 60
SCALE: 1"=60'

LEGEND:

- - — EXISTING R.O.W.
- EXISTING SIGN ON POST
- (A) TO REMAIN IN PLACE
- (R) REMOVE AND SALVAGE EXISTING SIGN AND DELIVER TO CITY OF SAN ANTONIO AS REQUIRED.
- (N) REPLACE WITH NEW SIGN AT LOCATION SHOWN ON PROPOSED SIGNING AND STRIPING PLAN. SALVAGE EXISTING SIGN AND DELIVER TO CITY OF SAN ANTONIO AS REQUIRED.

MARTIN STREET AT IH 10



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DRAWING TITLE
PARKING LOT
EXISTING SIGNING PLAN
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-402
REV. A

FILE: C402*WMTC*TRAF*SPM.dgn
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DATE: 6/23/2010
TIME: 2:26:16 PM
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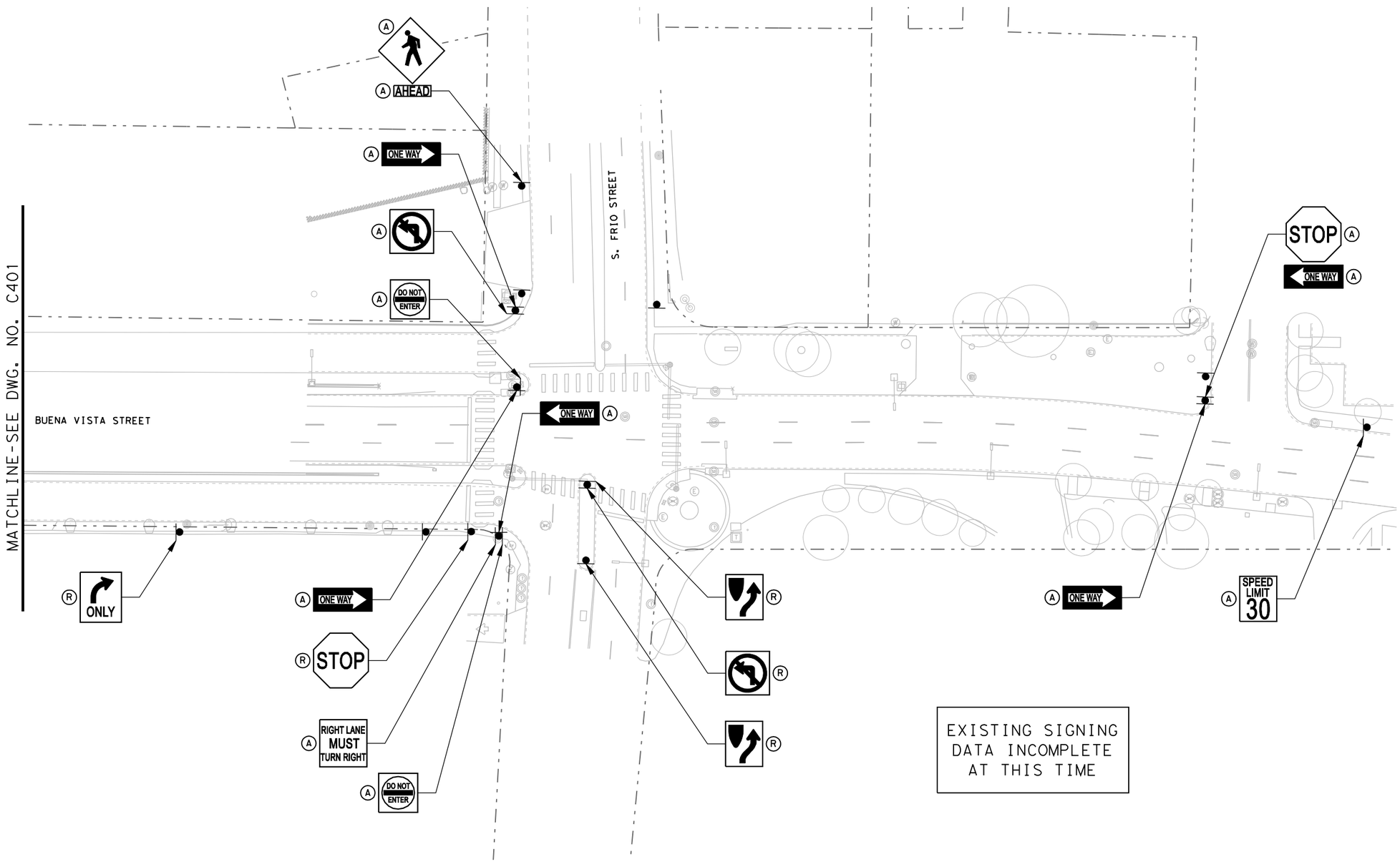

LEGEND:

- EXISTING R.O.W.
- EXISTING SIGN ON POST
- (A) TO REMAIN IN PLACE
- (R) REMOVE AND SALVAGE EXISTING SIGN AND DELIVER TO CITY OF SAN ANTONIO AS REQUIRED.
- (N) REPLACE WITH NEW SIGN AT LOCATION SHOWN ON PROPOSED SIGNING AND STRIPING PLAN. SALVAGE EXISTING SIGN AND DELIVER TO CITY OF SAN ANTONIO AS REQUIRED.

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DRAWING TITLE: BUENA VISTA STREET AT FRIO STREET EXISTING SIGNING PLAN
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DRAWING NO. C-403
REV. A

FILE: C403*WWTC*TRAF*SPM.dgn
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DATE: 6/23/2010
TIME: 2:26:44 PM
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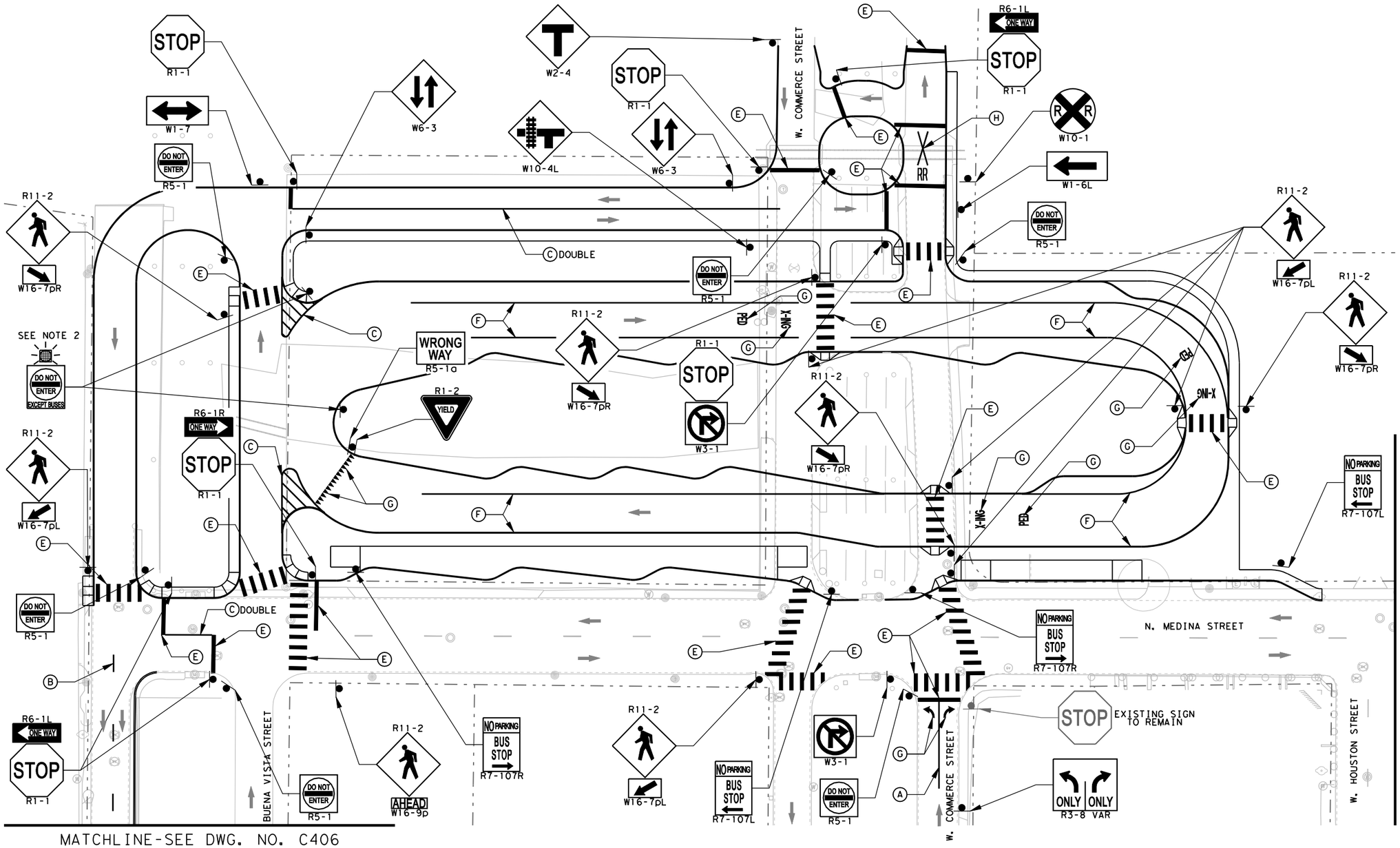

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SCALE: 1"=60'

LEGEND:

- TRAFFIC FLOW ARROW
- EXISTING R.O.W.
- PROPOSED SIGN POST
- (A) 4" WHITE SOLID TRAFFIC PAINT
- (B) 4" WHITE BROKEN TRAFFIC PAINT
- (C) 4" YELLOW SOLID TRAFFIC PAINT
- (D) 6" WHITE SOLID TRAFFIC PAINT
- (E) 24" WHITE SOLID TRAFFIC PAINT
- (F) FIRE LANE STRIPING
- (G) LANE ASSIGNMENT MARKING
- (H) RAILROAD PAVEMENT MARKING

NOTES:

1. SIGN LOCATIONS ARE APPROXIMATE. ACTUAL FIELD LOCATIONS MAY VARY.
2. SEE DWG. NO. C505 FOR FLASHING BEACON DETAILS, CONDUIT, AND GROUND BOX LOCATIONS.
3. SEE TXDOT SAN ANTONIO DISTRICT STANDARD SHEET TCD-05 FOR TYPICAL CROSSWALK STRIPING DETAILS.
4. SEE TXDOT SAN ANTONIO DISTRICT STANDARD SHEET RCPM-96 FOR RAILROAD CROSSING PAVEMENT MARKING DETAILS.
5. SEE TXDOT STANDARD SHEETS PM(5)-01 AND PM(6)-01 FOR LANE ASSIGNMENT MARKING DETAILS.
6. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED MARKINGS SHALL BE COMPLETELY REMOVED.

IN PROGRESS

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VIA primo
WESTSIDE MULTIMODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED / PROJ. MGR.

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DESIGNED BY JBP
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DRAWING TITLE
TRANSIT CENTER PROPOSED SIGNING AND STRIPING PLAN

65% DOCUMENTS | JUNE 25, 2010

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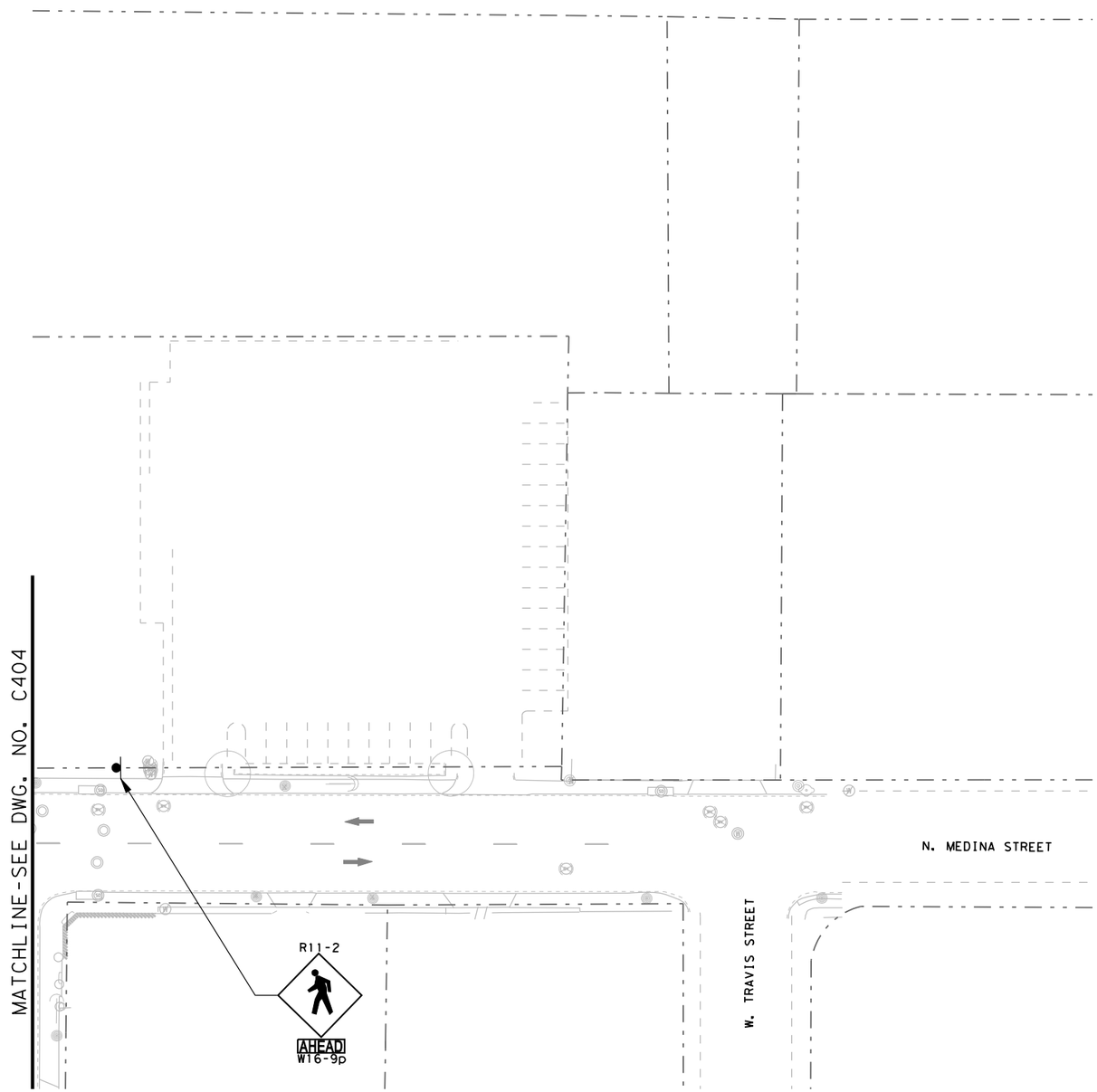

0 30 60
SCALE: 1"=60'

LEGEND:

- TRAFFIC FLOW ARROW
- EXISTING R.O.W.
- PROPOSED SIGN POST
- (A) 4" WHITE SOLID TRAFFIC PAINT
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- (C) 4" YELLOW SOLID TRAFFIC PAINT
- (D) 6" WHITE SOLID TRAFFIC PAINT
- (E) 24" WHITE SOLID TRAFFIC PAINT
- (F) FIRE LANE STRIPING
- (G) LANE ASSIGNMENT MARKING
- (H) RAILROAD PAVEMENT MARKING

NOTES:
1. SIGN LOCATIONS ARE APPROXIMATE. ACTUAL FIELD LOCATIONS MAY VARY.
2. SEE TXDOT SAN ANTONIO DISTRICT STANDARD SHEET TCD-05 FOR TYPICAL CROSSWALK STRIPING DETAILS.
3. SEE TXDOT STANDARD SHEETS PM(5)-01 AND PM(6)-01 FOR LANE ASSIGNMENT MARKING DETAILS.
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PARKING LOT PROPOSED SIGNING AND STRIPING PLAN
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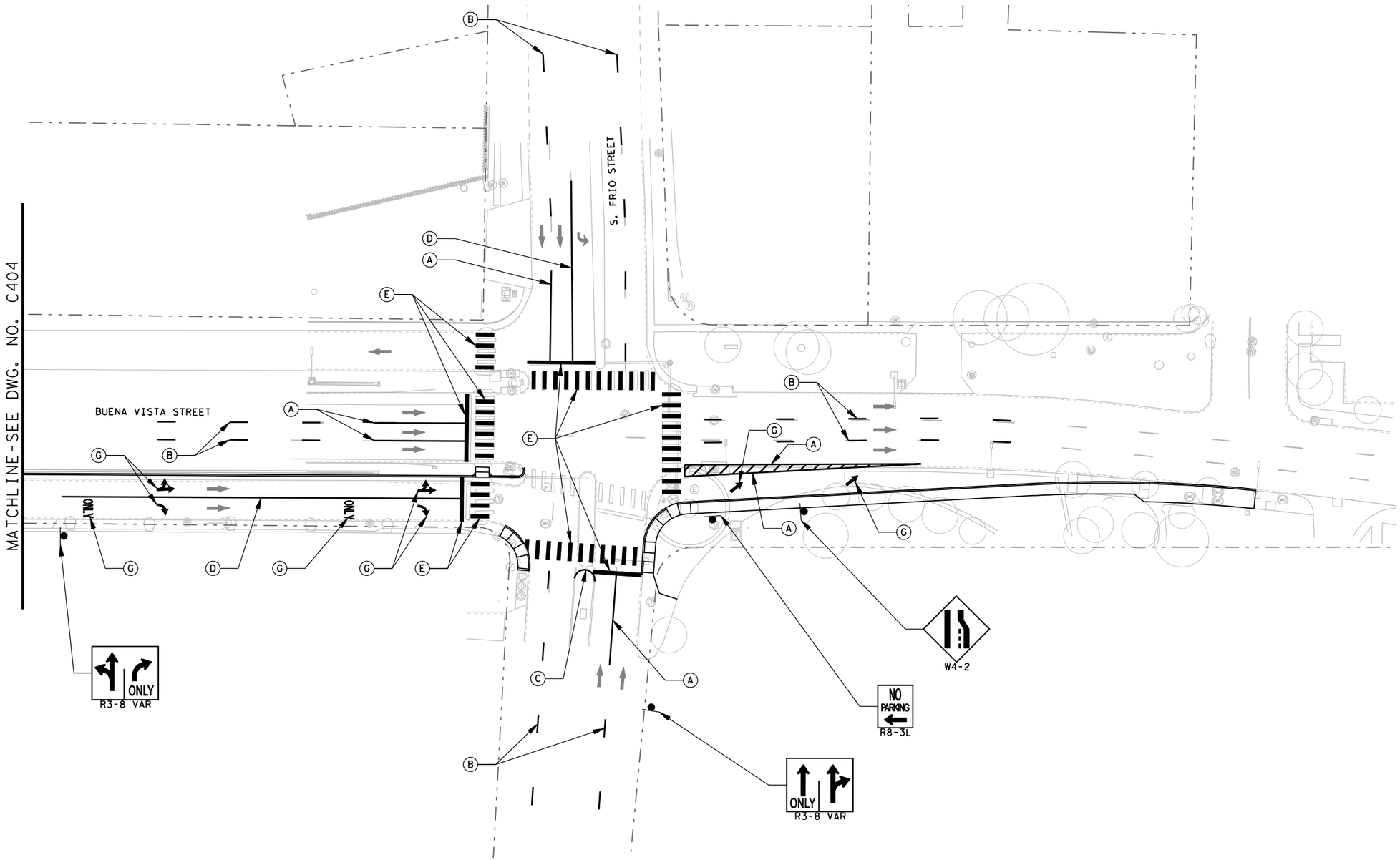

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SCALE: 1"=60'

LEGEND:

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- EXISTING R.O.W.
- PROPOSED SIGN POST
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NOTES:

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DRAWING TITLE
BUENA VISTA STREET AT FRIO STREET PROPOSED SIGNING AND STRIPING PLAN
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-406
REV. A

FILE: C406*WMTC*TRAF*SPM.dgn
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Printed by: p0047798

UTILITY NOTES:

1. LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES (PUBLIC AND PRIVATE) PRIOR TO COMMENCING WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO LOCATE, PRESERVE, AND PROTECT THESE UTILITIES, WHETHER UNDERGROUND, ABOVE GROUND, OR OVERHEAD. THESE FACILITIES INCLUDE, BUT ARE NOT LIMITED TO, SOUTHWESTERN BELL TELEPHONE, CPS ELECTRIC & GAS, CABLE TV, SAWS WATER AND SEWER, AND EXISTING TRAFFIC SIGNAL FACILITIES. CONTRACTOR SHALL NOTIFY UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION, BORING, TRENCHING, OR PUSHING PIPE IN AREA. THE FOLLOWING CONTACT NUMBERS MAY NOT BE INCLUSIVE, BUT ARE PROVIDED FOR THE CONTRACTOR'S INFORMATION.

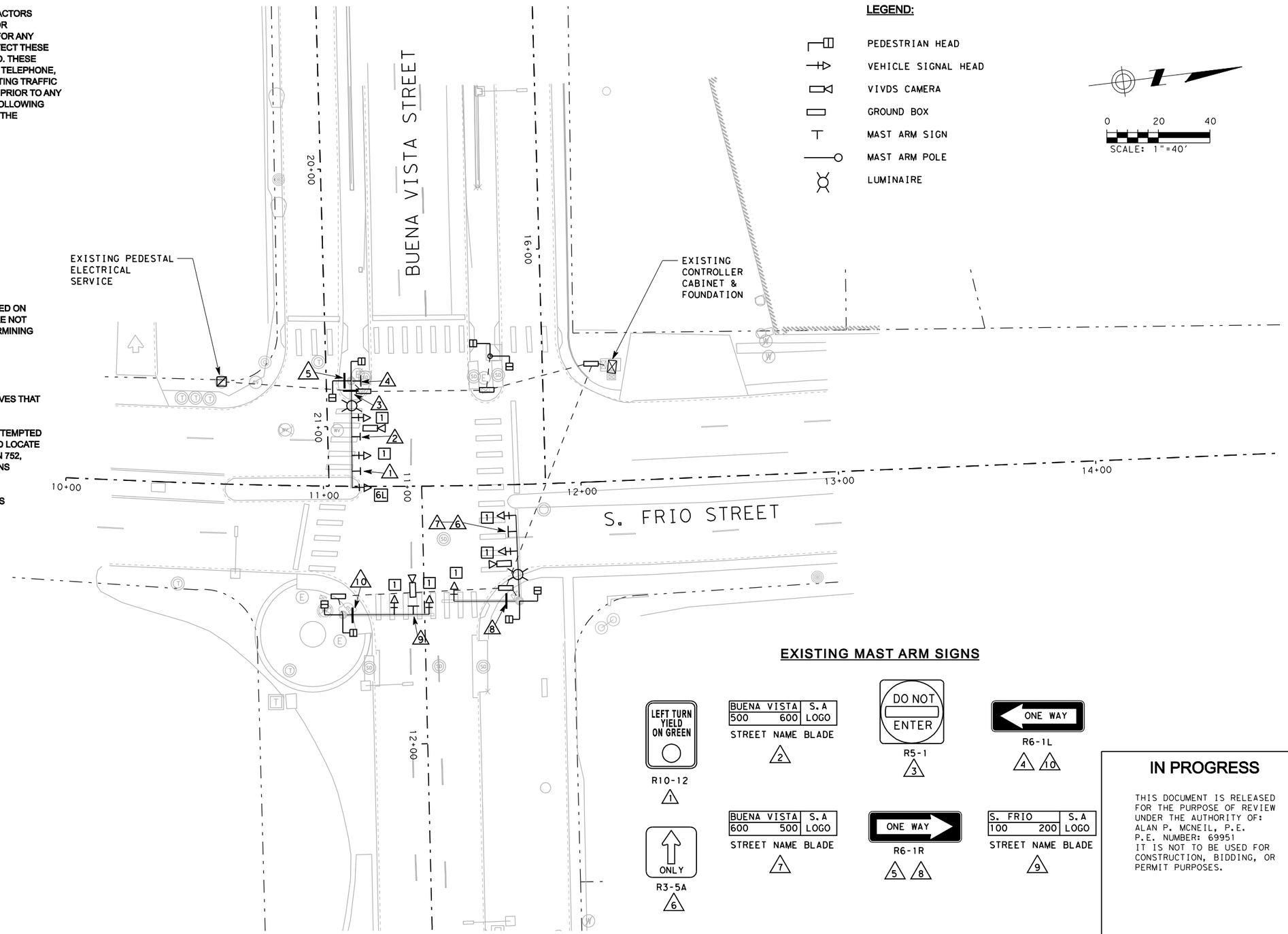
   TEXAS STATE-WIDE ONE CALL 800-545-6005
   - CPS ELECTRIC AND GAS: 800-545-6005 OR 210-978-3500
   - TIME WARNER CABLE TV: 800-545-6005 OR 210-352-4672
   - SOUTHWESTERN BELL TEL: 800-545-6005
   - AT&T 800-252-1133
   - SPRINT 800-545-6005
   - BEXAR METRO 210-354-6546
   - UNION PACIFIC RAILROAD (FIBER OPTIC) 800-336-9193

   SAN ANTONIO WATER SYSTEM (SAWS) 210-704-7109 OR 210-227-6143
   CITY OF SAN ANTONIO DRAINAGE 210-207-8048
   CITY OF SAN ANTONIO TRAFFIC SIGNALS 210-207-7765
   TxDOT TRAFFIC SIGNALS 210-615-5979

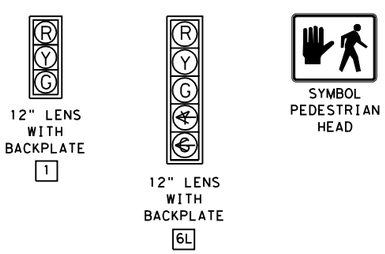
2. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE, BUT ARE NOT GUARANTEED ACCURATE. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES BEFORE COMMENCING WORK.

3. DUE TO FEDERAL REGULATION, TITLE-49, PART 192-181, CITY PUBLIC SERVICE (CPS) MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR SHALL PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

4. OVERHEAD UTILITIES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE SINCE THEY ARE CLEARLY VISIBLE. BUT YOU SHOULD LOCATE THEM BEFORE BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN TEN (10) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CONTACT CPS AT (210) 978-3500.



EXISTING TRAFFIC SIGNAL HEADS



EXISTING MAST ARM SIGNS

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via primo
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CHECKED BY: BPD
PROJECT MGR.: BPD

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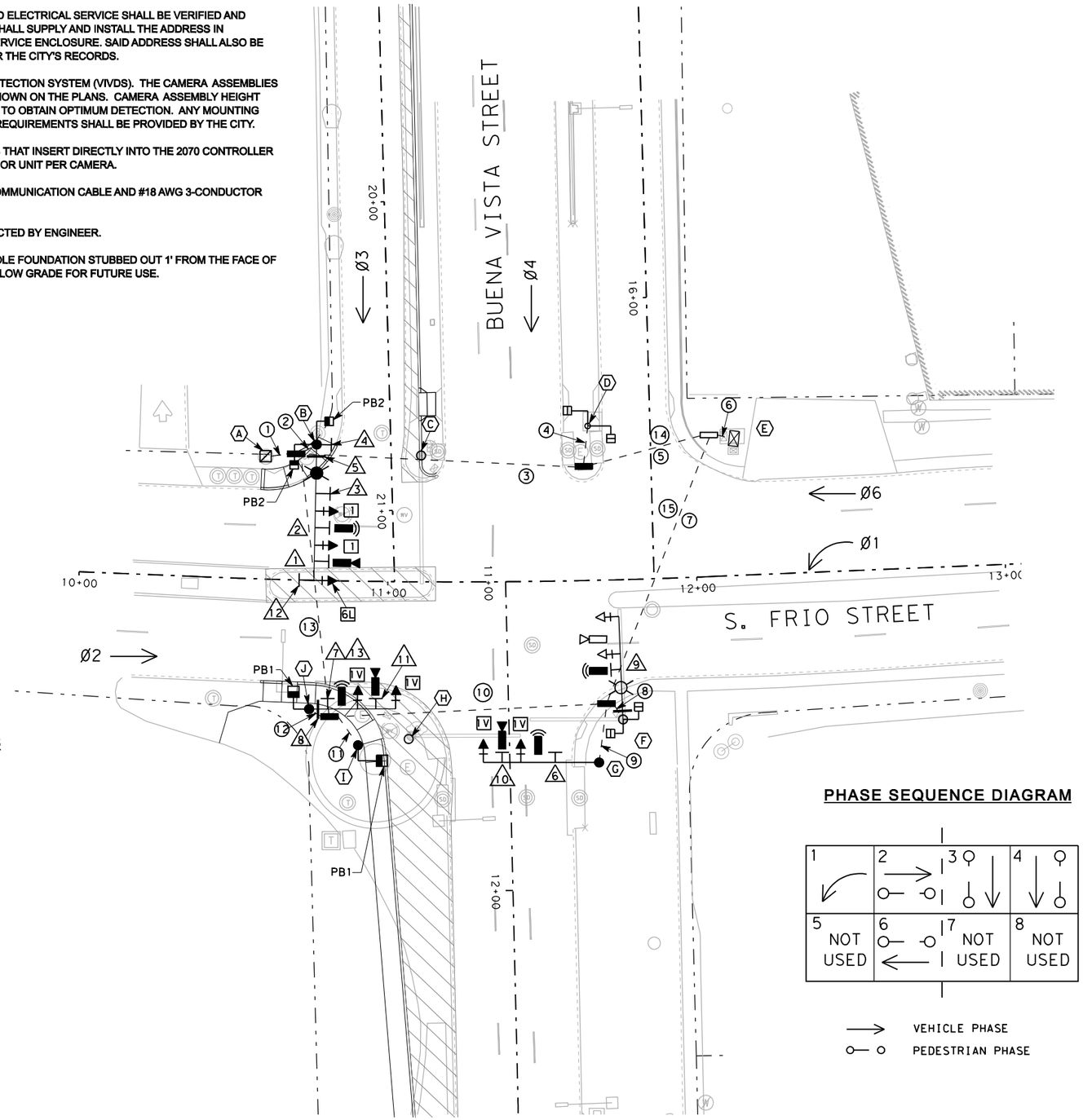
PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
EXISTING TRAFFIC SIGNAL LAYOUT
S. FRIO ST. AT BUENA VISTA ST.
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-501
REV. A

DATE: 6/23/2010
TIME: 2:28:31 PM
Printed by: p0047798

GENERAL NOTES:

1. LOCATION OF TRAFFIC SIGNAL POLES, CONTROLLER ASSEMBLIES. AND ELECTRICAL SERVICE SHALL BE VERIFIED AND APPROVED BY COSA PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE ADDRESS IN PERMANENT NUMBERS AND LETTERS TO THE STREET SIDE OF THE SERVICE ENCLOSURE. SAID ADDRESS SHALL ALSO BE RECORDED AND GIVEN TO THE CITY OF SAN ANTONIO INSPECTOR FOR THE CITY'S RECORDS.
2. DETECTION SHALL BE PROVIDED USING A VIDEO IMAGING VEHICLE DETECTION SYSTEM (VIVDS). THE CAMERA ASSEMBLIES SHALL BE MOUNTED ABOVE THE ROADWAY ON THE MAST ARMS, AS SHOWN ON THE PLANS. CAMERA ASSEMBLY HEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION TO OBTAIN OPTIMUM DETECTION. ANY MOUNTING HARDWARE, INCLUDING EXTENSION RODS, NEEDED TO MEET THESE REQUIREMENTS SHALL BE PROVIDED BY THE CITY.
3. THE VIVDS PROCESSOR SYSTEM PROVIDED SHALL CONSIST OF UNITS THAT INSERT DIRECTLY INTO THE 2070 CONTROLLER INPUT FILE. THE CITY WILL PROVIDE ONE 2-CHANNEL VIVDS PROCESSOR UNIT PER CAMERA.
4. VIVDS CAMERAS SHALL BE WIRED WITH TWO-IN-ONE CABLE (RG-59 COMMUNICATION CABLE AND #18 AWG 3-CONDUCTOR POWER SUPPLY CABLE), AS RECOMMENDED BY MANUFACTURER.
5. ALL ILSN SIGNS SHALL BE INSTALLED ON THE ILSN MAST ARM AS DIRECTED BY ENGINEER.
6. AN ADDITIONAL 2" SCHEDULE 80 PVC SHALL BE INSTALLED AT EACH POLE FOUNDATION STUBBED OUT 1' FROM THE FACE OF THE FOUNDATION. STUB OUTS SHALL BE APPROPRIATELY CAPPED BELOW GRADE FOR FUTURE USE.

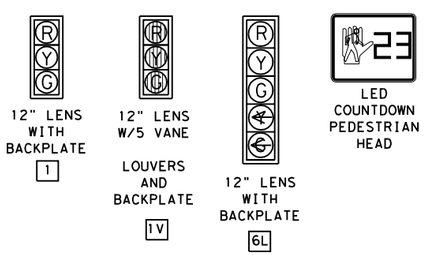


0 20 40
SCALE: 1"=40'

LEGEND:

- EQUIPMENT DESIGNATION
- EXISTING PEDESTRIAN HEAD
- PROPOSED PEDESTRIAN HEAD
- EXISITNG VEHICLE SIGNAL HEAD
- PROPOSED VEHICLE SIGNAL HEAD
- EXISITNG VIVDS CAMERA
- PROPOSED VIVDS CAMERA
- EXISITNG GROUND BOX
- PROPOSED GROUND BOX
- MAST ARM SIGN
- EXISITNG MAST ARM POLE
- PROPOSED MAST ARM POLE
- EXISITNG LUMINAIRE
- PROPOSED LUMINAIRE
- SIGNAL CONDUIT
- CONDUIT RUN NUMBER
- SIGNAL HEAD TYPE
- MAST ARM SIGN NUMBER
- PROPOSED OPTICOM DETECTOR

PROPOSED LED TRAFFIC SIGNAL HEADS



PHASE SEQUENCE DIAGRAM

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VIA CONTRACT NO.

DRAWING TITLE
PROPOSED TRAFFIC SIGNAL LAYOUT
S. FRIO ST. AT BUENA VISTA ST.
SHEET 1 OF 2
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-502
REV. A

DATE: 6/23/2010
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EQUIPMENT SCHEDULE

ID	CONSTRUCTION NOTES	LOCATION
A	EXISTING ELECTRICAL SERVICE PEDESTAL TO REMAIN. INSTALL NEW GROUND BOX NEAR PEDESTAL.	10+59 S. FRIO ST (40' LT)
B	INSTALL 30' SMA-80 POLE WITH 44' MA, 13' DEEP 36-A FOUNDATION, 1-8' LUM. ARM, 1-9' ILSN ARM, 2 LED COUNTDOWN PEDESTRIAN HEADS, 2 PEDESTRIAN PUSH BUTTONS WITH R10-4b (L&R) SIGNS, 1 VIVDS CAMERA ASSEMBLY AND 1 OPTICOM DETECTOR.	10+76 S. FRIO ST (44' LT)
C	EXISTING MAST ARM SIGNAL POLE TO BE REMOVED.	11+11 S. FRIO ST (41' LT)
D	EXISTING PED POLE AND PEDESTRIAN HEADS TO REMAIN.	11+65 S. FRIO ST (50' LT)
E	EXISTING CONTROLLER CABINET AND FOUNDATION TO REMAIN.	12+13 S. FRIO ST (44' LT)
F	EXISTING DUAL MAST ARM SIGNAL POLE TO REMAIN. REMOVE 24' CLAMP-ON MAST ARM. INSTALL 1 OPTICOM DETECTOR.	11+75 S. FRIO ST (45' RT)
G	INSTALL 24' SMA-80 POLE WITH 36' MA, 13' DEEP 36-A FOUNDATION, 1-7' ILSN ARM, 1 VIVDS CAMERA ASSEMBLY AND 1 OPTICOM DETECTOR.	11+67 S. FRIO ST (59' RT)
H	EXISTING MAST ARM SIGNAL POLE TO BE REMOVED.	11+7 S. FRIO ST (51' RT)
I	INSTALL PED POLE WITH 6' DEEP 24-A FOUNDATION, 1 LED COUNTDOWN PEDESTRIAN HEAD AND 1 PEDESTRIAN PUSH BUTTON WITH R10-4bL SIGN.	10+90 S. FRIO ST (53' RT)
J	INSTALL 24' SMA-80 POLE WITH 28' MA, 11' DEEP 30-A FOUNDATION, 1-7' ILSN ARM, 1 LED COUNTDOWN PEDESTRIAN HEAD, 1 PEDESTRIAN PUSH BUTTON WITH R10-4bR SIGN, 1 VIVDS CAMERA ASSEMBLY AND 1 OPTICOM DETECTOR.	10+76 S. FRIO ST (41' RT)

PROPOSED MAST ARM SIGNS

ID	SIGN LEGEND	TYPE	ID	SIGN LEGEND	TYPE
1	LEFT TURN YIELD ON GREEN	R10-12 (24"X30")	6, 7	S. FRIO 100 200 S. A LOGO	6' ILSN
2	ONE WAY	R6-2L (24"X30")	9, 10, 13	NO TURN ON RED	R10-11a (24"X30")
3	BUENA VISTA 500 600 S. A LOGO	8' ILSN	11	ONLY	R3-LT-R (36"X36")
4, 8	ONE WAY	R6-1L (36"X12")	12		R3-2 (30"X30")
5	DO NOT ENTER	R5-1 (30"X30")	PB 1	PUSH BUTTON FOR	R10-4bL (9"X12")
			PB 2	PUSH BUTTON FOR	R10-4bR (9"X12")

CONDUIT RUN SCHEDULE

RUN TYPES	RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
B = BORED	NUMBER OF CONDUITS	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1
T = TRENCHED	CONDUITS SIZE (INCHES)	2.0	3.0	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
E = EXISTING	CONDUIT LENGTH (FT)	15	15	100	20	55	10	100	10	25	95	20	15	85	55	100
	RUN TYPE	E	T	B	E	E	E	E	E	T	B	T	T	B	B	B
WIRE / CABLE TYPE	CIRCUIT	NUMBER OF WIRES / CABLES														
NO. 6 THHN / THWN	120 VAC POWER	2		2			2								2	
NO. 6 BARE	GROUND		1	1						1	1	1	1	1	1	1
NO. 8 THHN / THWN	STREET LIGHTING	2	4						2		2			2		
9 CONDUCTOR NO. 14 CABLE	Ø1, Ø6 VEH - POLE B		1	1			1								1	
	Ø2 VEH - POLE F															
	Ø4 VEH - POLE G						1			1						1
	Ø3 VEH - POLE J			1			1						1	1	1	
9 CONDUCTOR NO. 14 CABLE	Ø3, Ø6 PED & PPB - POLE B		1	1			1								1	
	Ø4, Ø6 PED & PPB - POLE D															
	Ø2, Ø4 PED & PPB - POLE F															
	Ø2 PED & PPB - POLE I						1				1	1				1
	Ø3 PED & PPB - POLE J			1			1						1	1	1	
COAX / 3C # 18 SIAMESE CABLE	Ø1, Ø6 VIVDS - POLE B		1	1			1								1	
	Ø2 VIVDS - POLE F															
	Ø4 VIVDS - POLE G						1			1						1
	Ø3 VIVDS - POLE J						1				1		1			1
4 CONDUCTOR NO. 14 CABLE	ILSN SIGN - POLE B		1	1			1								1	
	ILSN SIGN - POLE G						1			1						1
	ILSN SIGN - POLE J						1				1		1			1
OPTICOM NO. 138 CABLE	Ø6 EVP - POLE B		1	1			1								1	
	Ø2 EVP - POLE F						1		1							1
	Ø4 EVP - POLE G						1			1						1
	Ø3 EVP - POLE J						1				1		1			1

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WESTSIDE MULTIMODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED / PROJ. MGR.

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DRAWING TITLE: PROPOSED TRAFFIC SIGNAL LAYOUT S. FRIO ST. AT BUENA VISTA ST. SHEET 2 OF 2
65% DOCUMENTS
JUNE 25, 2010
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DATE: 6/23/2010
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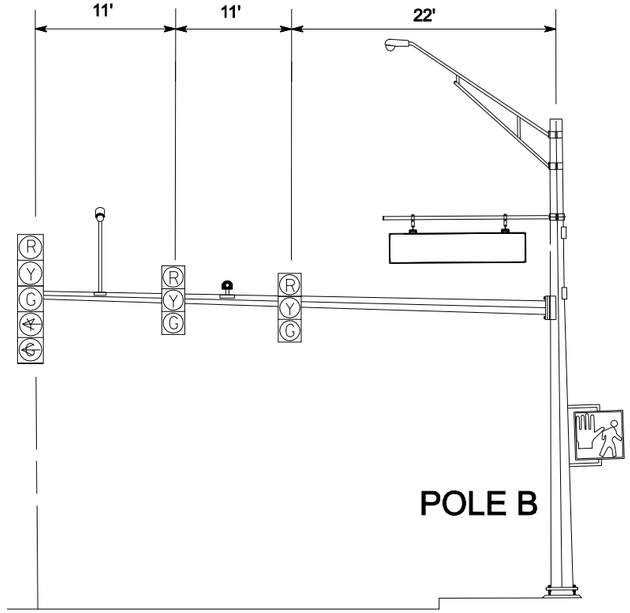
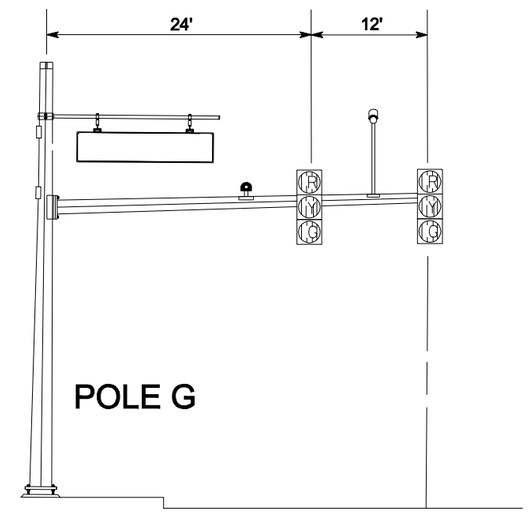
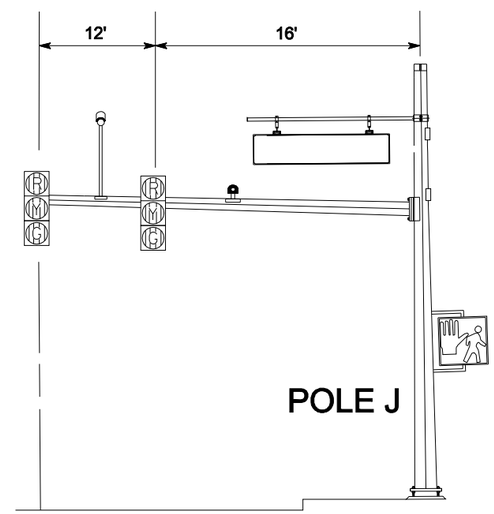


S.B. SOUTH FRIO ST.



BUENA VISTA STREET OVERPASS



BUENA VISTA STREET EASTBOUND

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DRAWING TITLE
PROPOSED TRAFFIC SIGNAL ELEVATIONS
S. FRIO ST. AT BUENA VISTA ST.

65% DOCUMENTS | JUNE 25, 2010
DRAWING NO. C-504
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DATE: 6/23/2010
TIME: 2:30:11 PM
Printed by: p0047798

CONDUIT RUN SCHEDULE

RUN TYPES B = BORED T = TRENCHED P = IN POLE	RUN NUMBER	1	2	3	4	5	6	7	8
	NUMBER OF CONDUITS	1	1	1	1	1	1	-	-
	CONDUITS SIZE (INCHES)	2.0	2.0	2.0	2.0	2.0	2.0	-	-
	CONDUIT LENGTH (LF)	15	15	160	15	85	40	20	20
	RUN TYPE	T	T	T	T	T	T	P	P
WIRE / CABLE TYPE	CIRCUIT	NUMBER OF WIRES/CABLES							
NO. 4 THHN / THWN	120 VAC POWER	3							
NO. 6 BARE	GROUND		1	1	1	1	1		
NO. 8 THHN / THWN	FLASHER - UNDERGROUND		2	2	4	2	2		
NO. 12 THHN / THWN	FLASHER - IN POLE							2	2

NOTES:

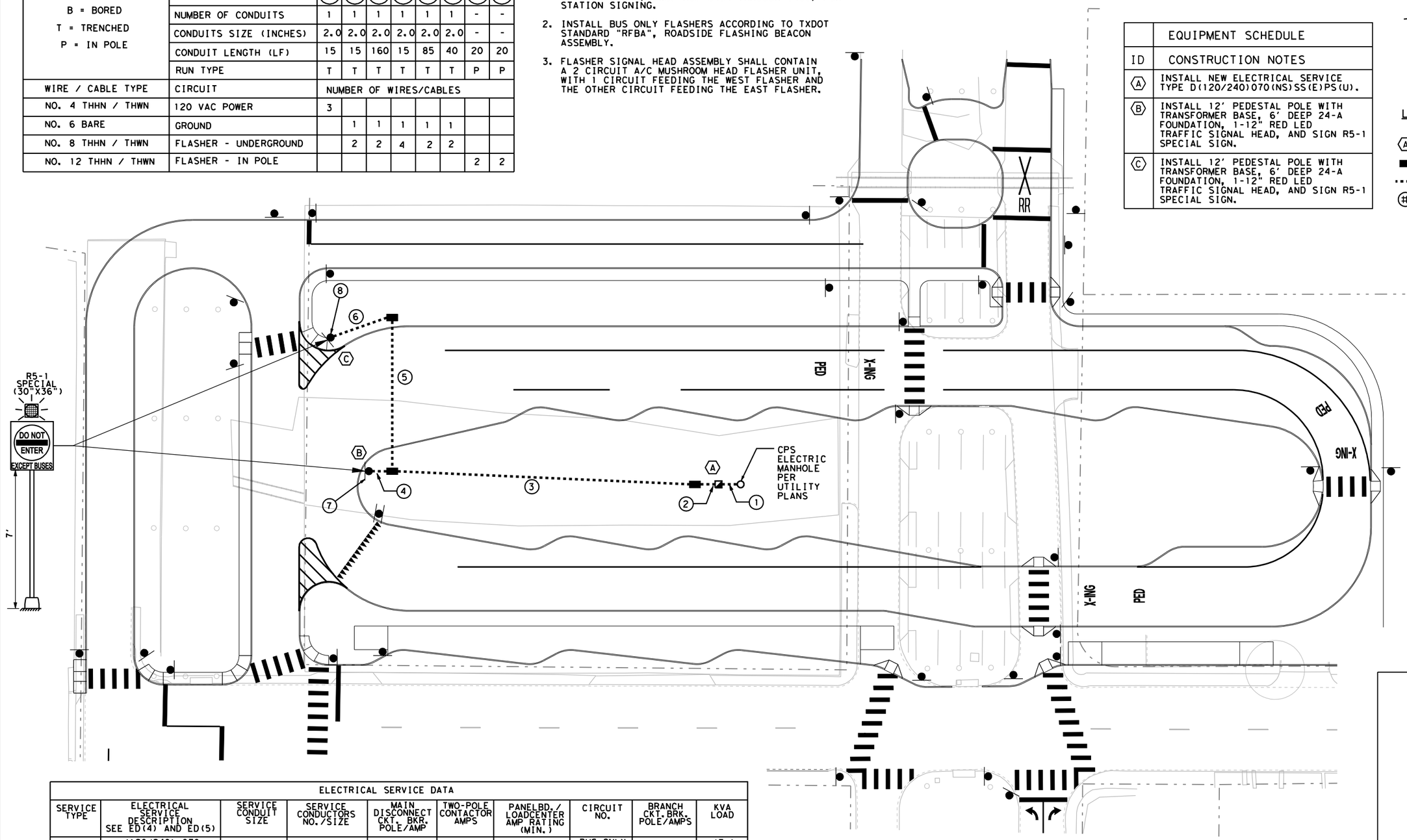
1. SEE WESTSIDE MULTIMODAL TRANSIT CENTER TRAFFIC CONTROL PLANS, DWG. NO. C404 THROUGH C406, FOR STATION SIGNING.
2. INSTALL BUS ONLY FLASHERS ACCORDING TO TXDOT STANDARD "RFBA", ROADSIDE FLASHING BEACON ASSEMBLY.
3. FLASHER SIGNAL HEAD ASSEMBLY SHALL CONTAIN A 2 CIRCUIT A/C MUSHROOM HEAD FLASHER UNIT, WITH 1 CIRCUIT FEEDING THE WEST FLASHER AND THE OTHER CIRCUIT FEEDING THE EAST FLASHER.

	EQUIPMENT SCHEDULE
ID	CONSTRUCTION NOTES
A	INSTALL NEW ELECTRICAL SERVICE TYPE D(120/240)070(NS)SS(E)PS(U).
B	INSTALL 12' PEDESTAL POLE WITH TRANSFORMER BASE, 6' DEEP 24-A FOUNDATION, 1-12" RED LED TRAFFIC SIGNAL HEAD, AND SIGN R5-1 SPECIAL SIGN.
C	INSTALL 12' PEDESTAL POLE WITH TRANSFORMER BASE, 6' DEEP 24-A FOUNDATION, 1-12" RED LED TRAFFIC SIGNAL HEAD, AND SIGN R5-1 SPECIAL SIGN.

0 25 50
SCALE: 1"=50'

LEGEND:

- A EQUIPMENT DESIGNATION
- PROPOSED GROUND BOX
- FLASHER CONDUIT
- # CONDUIT RUN NUMBER



ELECTRICAL SERVICE DATA

SERVICE TYPE	ELECTRICAL SERVICE DESCRIPTION SEE ED(4) AND ED(5)	SERVICE CONDUIT SIZE	SERVICE CONDUCTORS NO./SIZE	MAIN DISCONNECT CKT. BKR. POLE/AMP	TWO-POLE CONTACTOR AMPS	PANELBD./ LOADCENTER AMP RATING (MIN.)	CIRCUIT NO.	BRANCH CKT. BRK. POLE/AMPS	KVA LOAD
TYPE D	(120/240) 070 (NS) SS (E) PS (U)	2"	3/#4	2P/70	30	100	BUS ONLY FLASHERS	1P/15	<7.1

IN PROGRESS

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VIA primo
WESTSIDE MULTIMODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED / PROJ. MGR.

DRAWN BY PB
DESIGNED BY APM
CHECKED BY BPD
PROJECT MGR. BPD

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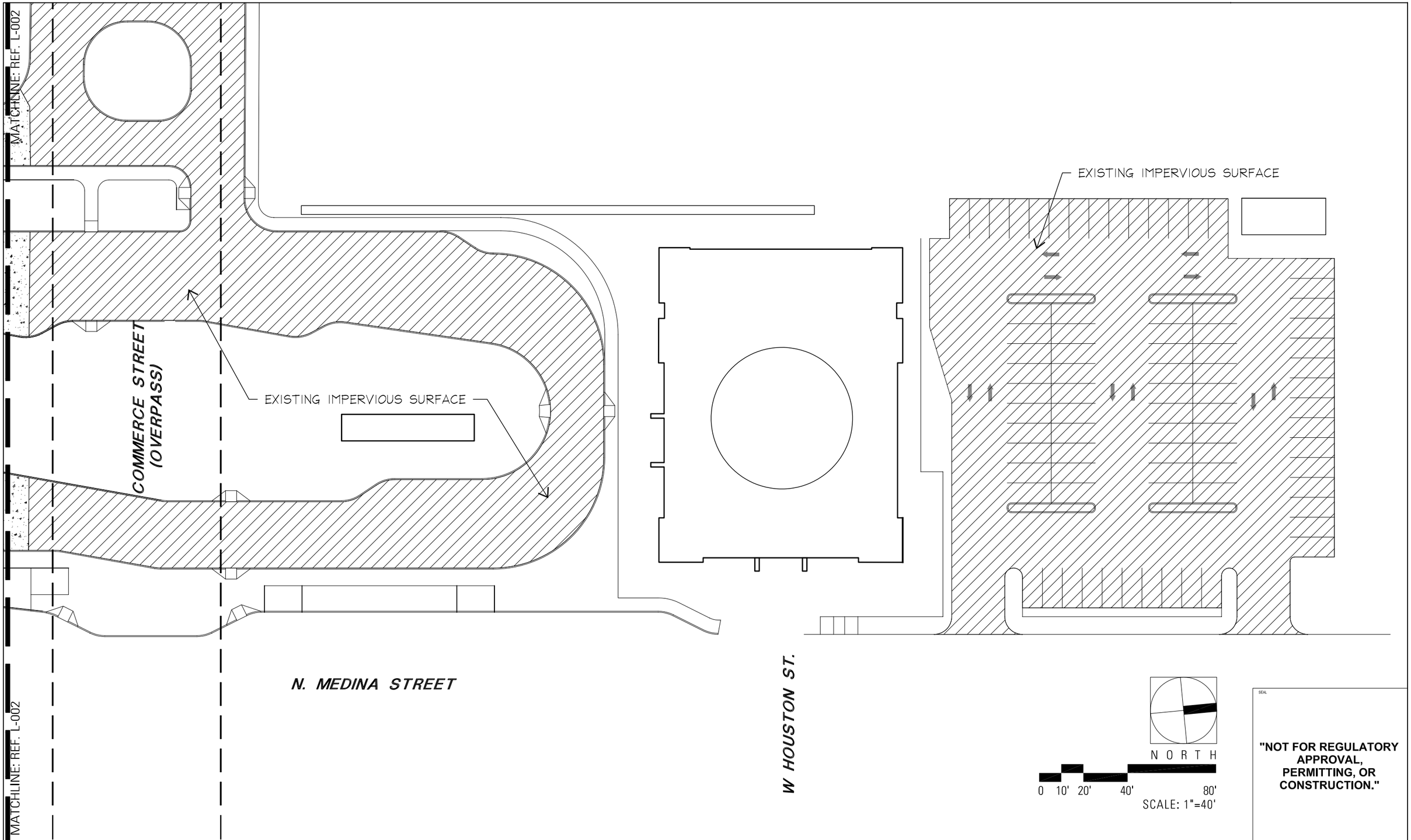
DRAWING TITLE
BUS ONLY FLASHERS
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. C-505
REV. A

FILE: C505*VIA*MCTC*CONDUIT.dgn
Default
VIA.tbl



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TBG PARTNERS
70 NE LOOP 410, STE 570
SAN ANTONIO, TX 78216
O: 210/366-9933
F: 210/366-9916

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CHECKED BY: SW
PROJECT MGR.: SW

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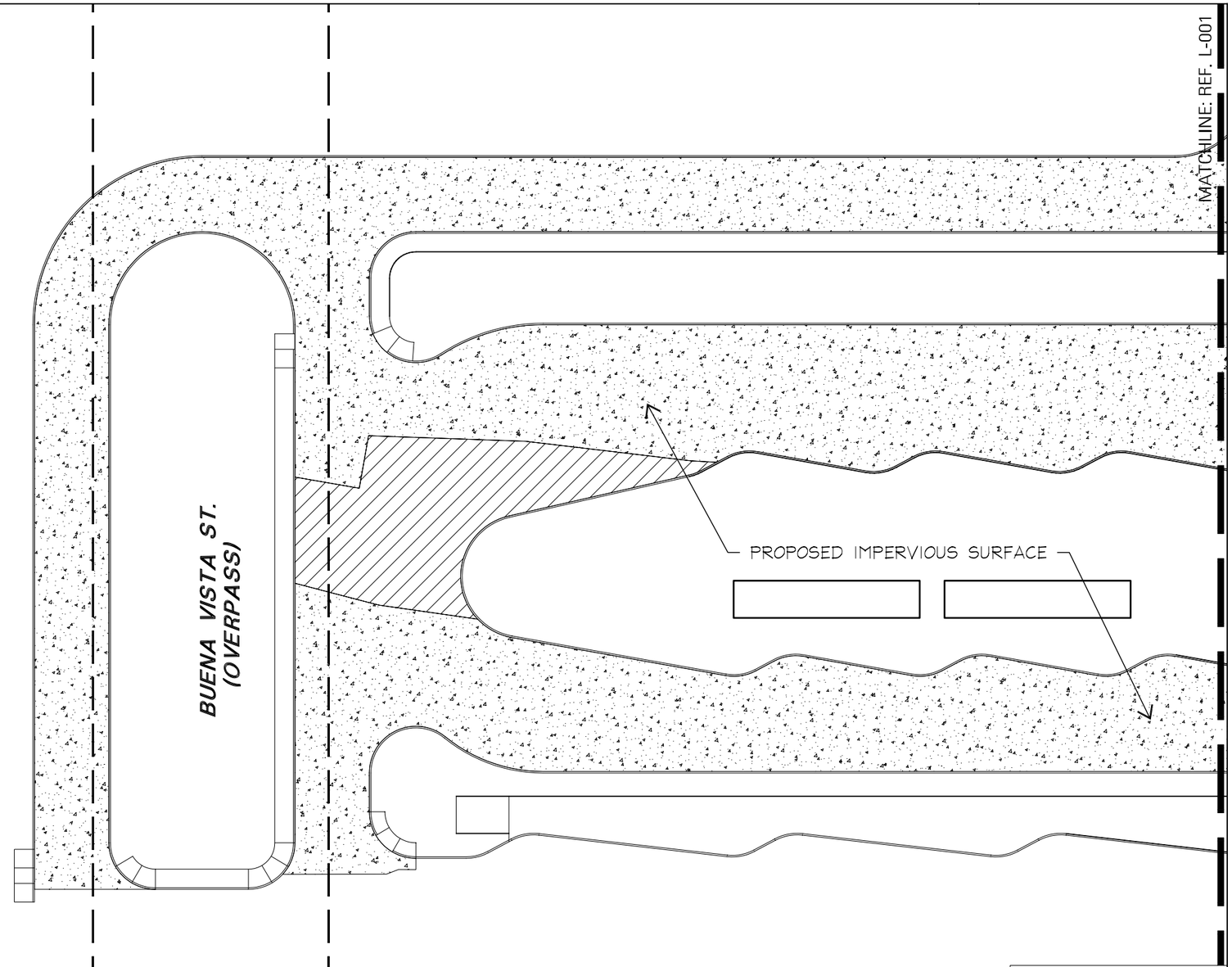
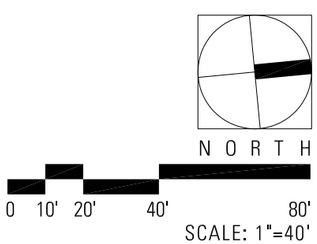
DRAWING TITLE
TREE PRESERVATION PLAN SHEET 1

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **L-001** REV. A





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DRAWING TITLE
TREE PRESERVATION PLAN
SHEET 2

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **L-002** REV. A

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WSMMTC TREE INVENTORY

Tag #	Species	Tree Protection Treatment (TPT)	Understory Species* 5.0" - 11.5"			Significant Tree 6" - 23.5"			Significant Tree** 10.0" - 23.5"		Heritage 3:1		Heritage 1:1		Additional Inches Preserved for Mitigation ***
			Removed	Saved	Preserved	Removed	Saved	Preserved	Removed	Preserved	Removed	Preserved	Removed	Preserved	Preserved
700	cedar elm					7									
701	cedar elm					6									
702	cedar elm					8									
703	cedar elm					8									
704	cedar elm					8									
705	cedar elm					8									
706	live oak					15									
707	crapemyrtle					12									
708	crapemyrtle					8									
709	crapemyrtle					6									
710	crapemyrtle					6									
711	crapemyrtle					7									
712	crapemyrtle					7									
713	crapemyrtle					8									
714	crapemyrtle					8									
715	crapemyrtle					8									
716	cedar elm					8									
717	red oak					12									
718	cedar elm					12									
719	cedar elm					14									
720	live oak	X						16							
721	live oak	X						16							
722	crapemyrtle							9							
723	crapemyrtle							9							
724	crapemyrtle							9							
725	cedar elm							12							
726	crapemyrtle (3")		N/A												
727	crapemyrtle					6									
728	cedar elm							14							
729	crapemyrtle							9							
730	crapemyrtle	X						14							
731	crapemyrtle	X						17							
732	crapemyrtle							14							
733	crapemyrtle							14							
734	crapemyrtle							14							
735	live oak	X						10							
1101	cedar elm					8									
1102	cedar elm	X					9								
1103	live oak	X					17								
1104	crapemyrtle	X					6								
1105	crapemyrtle	X					6								
1106	crapemyrtle	X					7								
1107	crapemyrtle	X					8								
1108	crapemyrtle	X					8								
1109	crapemyrtle	X		5											
1110	red oak		5												
1111	red oak						10								
1112	live oak	X				18									
1113	cedar elm (3")		N/A												
1114	cedar elm (3")		N/A												
1115	cedar elm (3")		N/A												
1116	cedar elm (4")		N/A												
1117	cedar elm (4")		N/A												
1118	cedar elm					7									
1119	cedar elm	X						6							
1120	red oak							14							
1121	mountain laurel				6										
1122	redbud							8							
1123	redbud							9							
1124	redbud							8							
1125	redbud							8							
1126	redbud	X					7								
Sub. Tot. Inches=			5	5	6	215	78	230	0	0	0	0	0	0	0
Total inches by category=					16			523		0		0		0	

Preservation percentage=	38%	Significant Preservation	44%	Heritage Preservation	0%
Mitigation required (Commercial) =	0.4	Commercial (inches)	-20.8		
Mitigation required (Residential) =	-0.4	Residential (inches)	-46.95	Heritage Mitigation (inches)	0

No category to fall below 10% preservation;
Preserved- Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC.
Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation
** Small species: Condalia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for Heritage Trees*
*** Ashe Juniper, Huisache, Mesquite, Arizona Ash, Hackberry protected at 10" dbh and mitigated at 1:1 for heritage trees*
**** Mitigation Trees: Unprotected-sized trees to be used for mitigation calculations; subtract inches from mitigation owed*

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CHECKED BY: SW
PROJECT MGR.: SW

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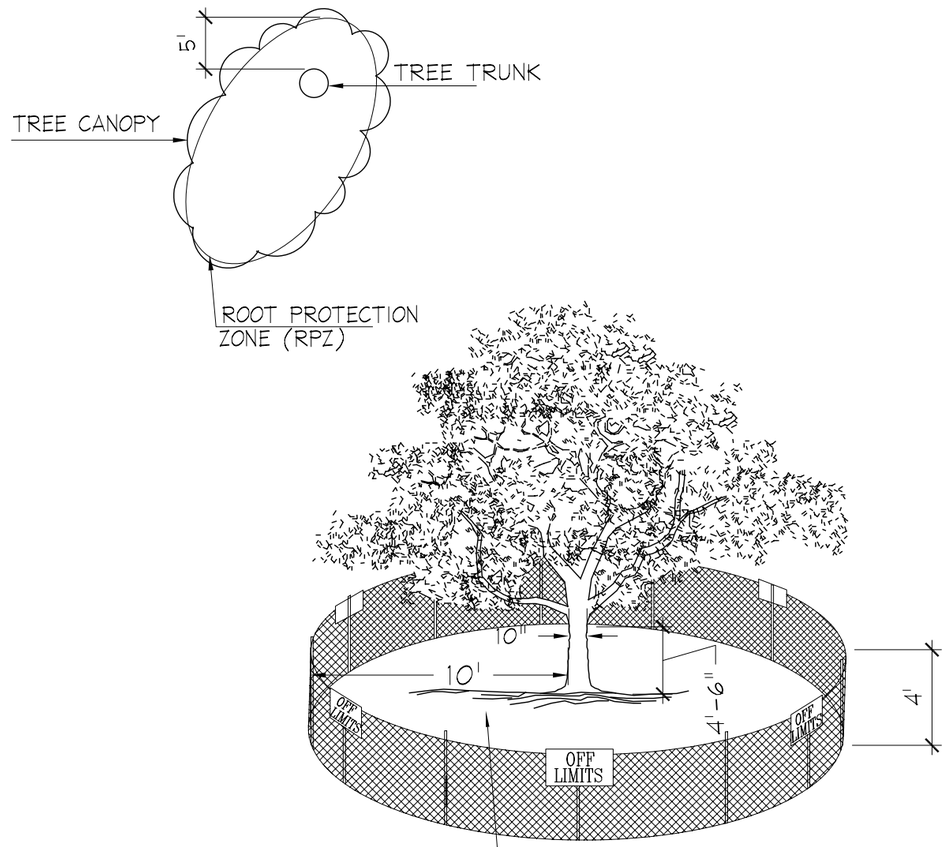
DRAWING TITLE
TREE PRESERVATION TABLE

65% DOCUMENTS | JUNE 25, 2010

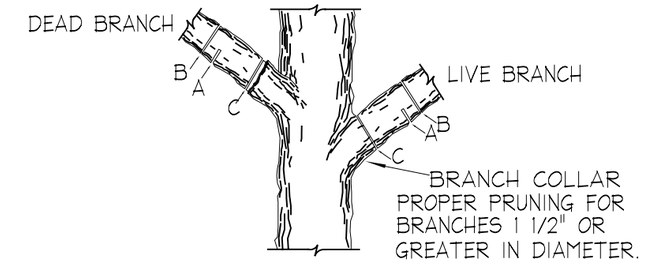
DRAWING NO. **L-101** REV. A



NOTE:
1. THE FENCING SHOWN ABOVE IS DIAGRAMATIC ONLY, WILL CONFORM TO THE DRIP LINE AND IS LIMITED TO PROJECT BOUNDARY.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECS.

2 TREE PROTECTION ZONE

ELEVATION — NOT TO SCALE

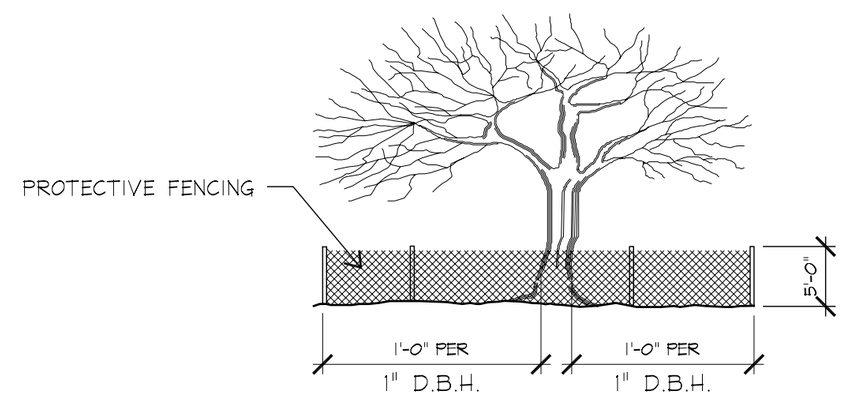


A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS

FOR OAKS ONLY:
PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.

3 BRANCH PRUNING

ELEVATION — NOT TO SCALE



1 ROOT PROTECTION ZONE

ELEVATION — NOT TO SCALE

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DRAWING TITLE: **TREE PRESERVATION DETAILS**
65% DOCUMENTS — JUNE 25, 2010
DRAWING NO. **L-102** REV. A

TREE PROTECTION NOTES:

1.) ALL TREES SHOWN ON THIS PLAN TO BE RETAINED OR REPLANTED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.

2.) TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY OF SAN ANTONIO STANDARDS FOR TREE PROTECTION.

3.) TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.

4.) FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE); AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:

A.) SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS.

B.) ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ARBORIST.

C.) WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT.

D.) OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.

5.) EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES: PROVIDED NO WORK IS CLOSER THAN $\frac{1}{2}$ RPZ AND THE CONTRACTOR COORDINATES WITH THE CITY OF SAN ANTONIO INSPECTOR.

A.) WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.

B.) WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.

C.) WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY OF SAN ANTONIO ARBORIST AT 207-8053 TO DISCUSS ALTERNATIVES.

6.) WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUCK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.

7.) WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES (UNDER DRIPLINES) THOSE AREAS SHOULD BE COVERED WITH 6 INCHES OF ORGANIC MULCH OR GRAVEL TO MINIMIZE SOIL COMPACTION.

8.) ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.

9.) ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.

10.) PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.

11.) TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

12.) WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE ROOT ZONE.

13.) ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.

14.) PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS (BEFORE DAMAGE OCCURS). ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY; REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES, CLASS IV OF PRUNING (AVAILABLE ON REQUEST FROM THE CITY ARBORIST).

15.) ALL WOUNDS ON OAK TREES MUST BE REPAIRED WITHIN 30 MIN. OF OCCURRENCE BY BARK TRACING TO REMOVE DAMAGED WOOD AND BARK
THOROUGHLY SEAL WITH AN ACCEPTABLE TREE WOUND DRESSING.

16.) ALL WOUNDS WHICH OCCUR TO TREE TRUNKS AND LIMBS MUST BE REPAIRED WITHIN 24 HOURS OF OCCURRENCE BY BARK TRACING TO REMOVE DAMAGED WOOD AND BARK. THIS SPECIFICALLY APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES AND EQUIPMENT, INSTALLATION OF TOWERS AND PIERS, AND STRINGING OF ELECTRICAL LINES.

17.) TREES APPROVED FOR REMOVAL OR REPLANTING SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

18.) IF THERE IS ENCROACHMENT OF MORE THAN ONE HALF OF THE RPZ ON ONE SIDE OF THE TREE, COORDINATE WITH CITY OF SAN ANTONIO INSPECTOR PRIOR TO CUTTING ANY OF THE ROOT STRUCTURE.

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PROJECT MGR.: SW

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PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
TREE PRESERVATION NOTES SHEET 1

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **L-103** REV. A

TREE TRANSPLANTING NOTES:

1. TREE TRANSPLANT: TREES TO BE TRANSPLANTED, AS SHOWN ON THE PLANS, SHALL BE MOVED TO THEIR NEW LOCATIONS USING TRUCK OR TRACTOR-MOUNTED EQUIPMENT DESIGNED TO PERFORM SUCH WORK. THE EQUIPMENT TO BE USED AND METHOD SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PERFORMING SUCH WORK. ROOT BALL SIZE SHALL BE DONE AS A GENERAL RULE OF 9:1 OR 9" OF ROOT DIAMETER TO 1" DBH.

2. TREE PLANTING: REFERENCE DETAILS FOR PLANTING REQUIREMENTS, MATERIALS, AND EXECUTION, INLUDING STAKING METHODS, PLANT PIT DIMENSIONS, AND BACKFILL REQUIREMENTS. GUY ALL TREES 4" CALIPER AND GREATER, AND STAKE ALL TREES SMALLER THAN 4" CALIPER UNLESS MACHINE MOVED. STAKE ALL MACHINE MOVED TREES WITH THREE (3) METAL T STAKES PER DETAIL.

BACKFILL ALL TREE PITS WITH PLANTING MIX AND INCORPORATE 5 LBS OF 13-13-13 FERTILIZER PER CU. YD. OF MIX INTO ALL TREE PITS. ALL TREE WATER RETENTION BASINS SHALL RECEIVE MIN. 4" DEEP COMPOSTED HARDWOOD BARK MULCH.

2. SET TREE STRAIGHT AND PLUMB, AND FILL ANY AIR SPACES AROUND TREE WITH SPECIFIED SAND OR SANDY LOAM TOPSOIL, WATER IN TO DISPLACE AIR POCKETS. INSTALL 3" HIGH WATER RETENTION BASIN PER SPECIFICATIONS WITH 4" DEEP COMPOSTED BARK MULCH AND WATER THE SPADED TREES THE DAY OF TRANSPLANTING.

3. TREES SHALL BE LOCATED MINIMUM OF 2' - 6" FROM WALLS, OVERHEADS, WALKS, EDGING, CURBS AND OTHER TREES WITHIN THE PROJECT. IF CONFLICTS ARISE BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR TO CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE LANDSCAPE ARCHITECT MAY RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS.

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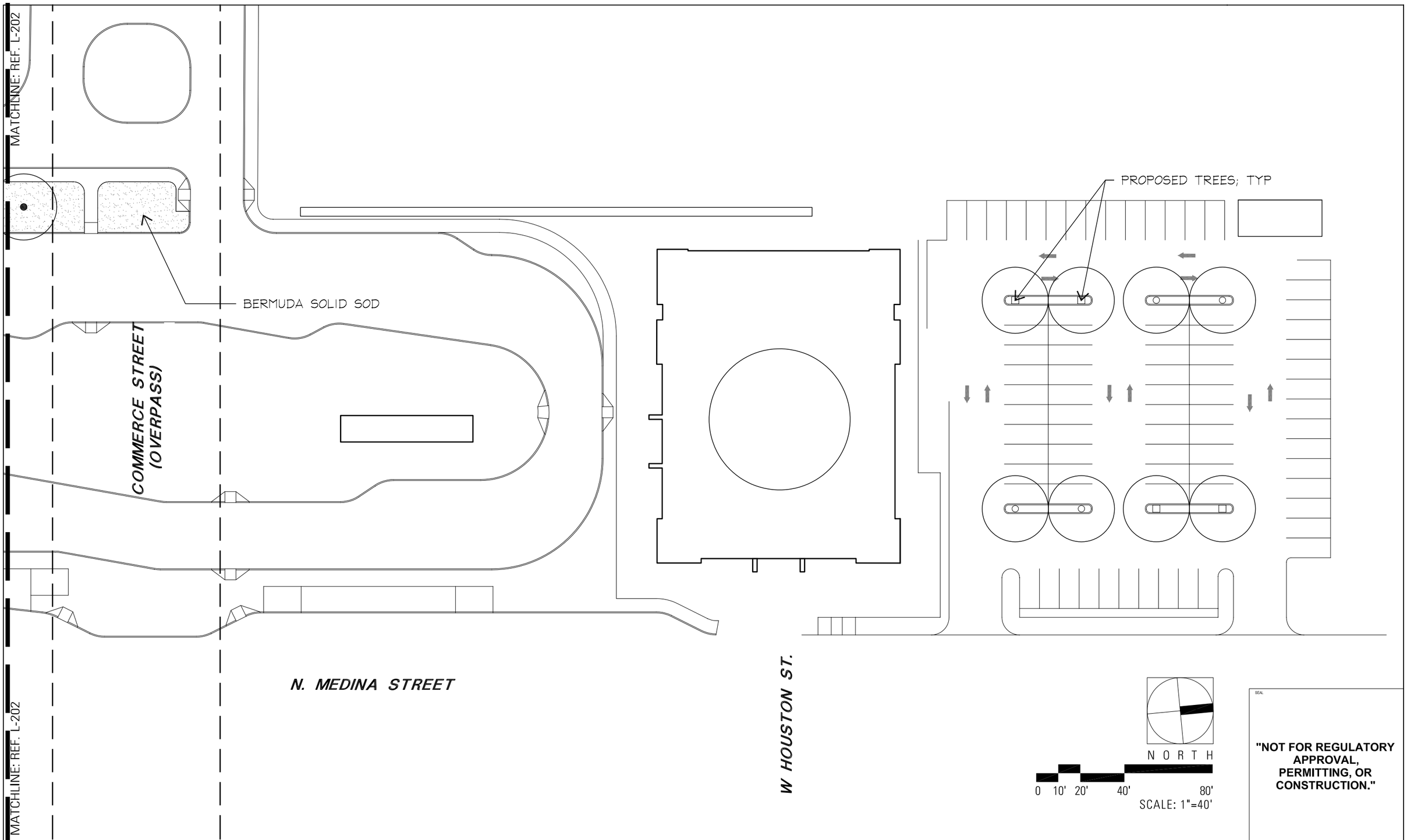
DRAWING TITLE
TREE TRANSPLANT NOTES SHEET 2
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. **L-104**
REV. A



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PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
PLANTING PLAN
SHEET 1

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **L-201** REV. A

Parking Lot Shading				
Qty.	Type	Value	% Shade Value	Sq. Ft.
Existing				
2	Live Oak	875	100	1,750
6	Cedar Elm	875	100	5,250
2	Red Oak	550	100	1,100
2	Red Bud	275	100	550
Proposed				
8	Live Oak	875	75	5,250
4	Cedar Elm	875	75	2,625
4	Red Oak	550	75	1,650
			Total:	**18,175**
			Required:	**10,130**

LEGEND:

TREES TO REMAIN

EXISTING TREES TO BE USED FOR PARKING LOT SHADING

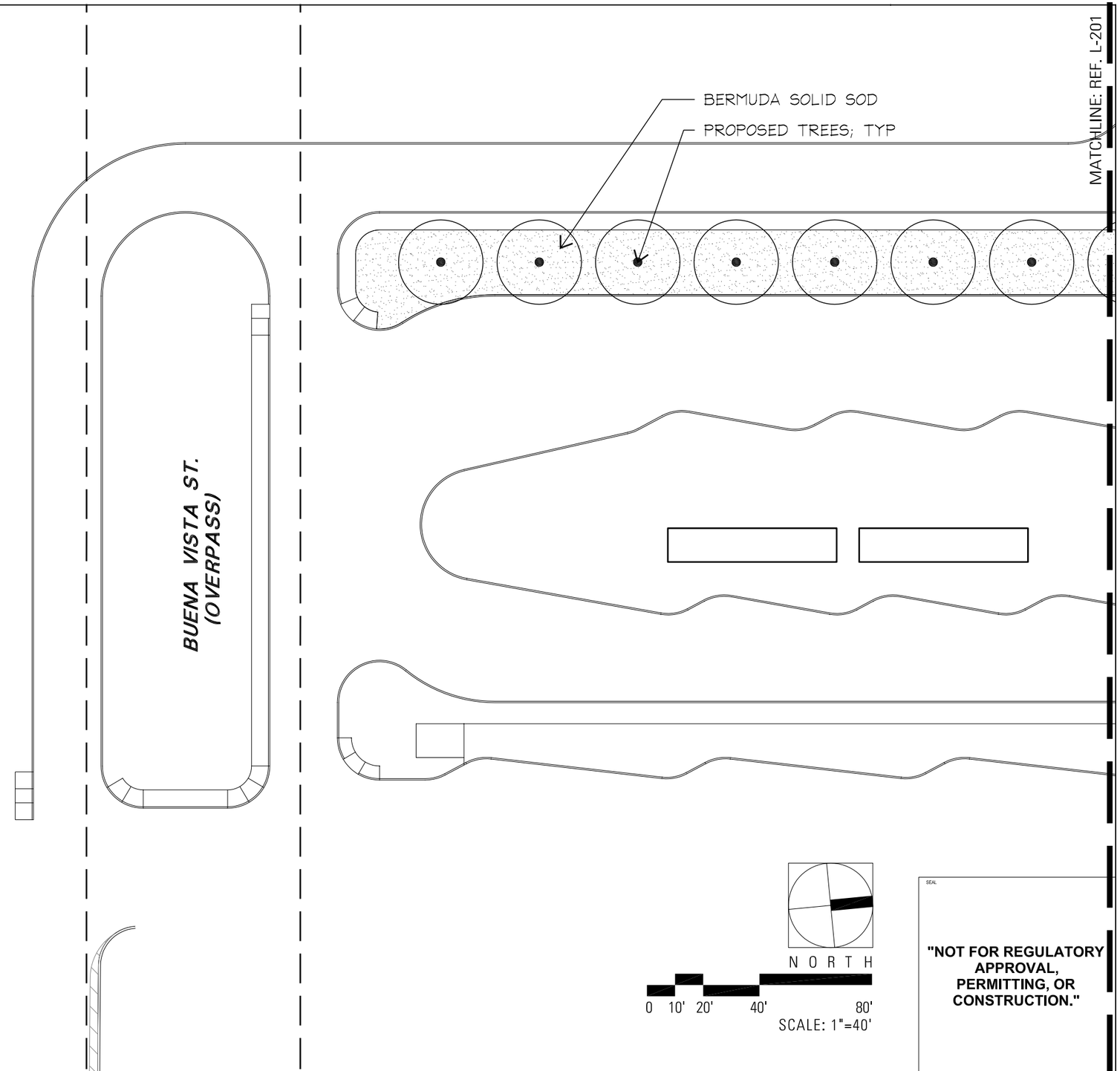
LANDSCAPE TABULATION

PARKING LOT SHADING	20 PTS
ADDITIONAL SHADING	5 PTS
TOTAL	25 PTS
PTS REQUIRED	25 PTS

PARKING TABULATION

SF. OF PROPOSED IMPERVIOUS SURFACE: 40,522
SF. OF AREA REQUIRED TO BE SHADED: 10,130

TOTAL SHADE AREA PROPOSED = 18,175 SF



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DRAWING NO. **L-202** REV. A

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PLANT LIST

TREES

SYMBOL	COMMON NAME *BOTANICAL NAME*	SIZE	REMARKS
UC6	Cedar Elm *Ulmus crassifolia*	6" cal; min 15' ht;	Single trunk B&B; straight trunk with full and uniform canopy.
UC4	Cedar Elm *Ulmus crassifolia*	4" cal; min 10' ht;	Single trunk B&B; straight trunk with full and uniform canopy.
QS6	Shumard Oak *Quercus shumardii*	6" cal; min. 15' ht;	Single trunk B&B; straight trunk with full and uniform canopy. Park grade not acceptable
QS4	Shumard Oak *Quercus shumardii*	4" cal; min. 15' ht; min. 7' sprd.	Single trunk B&B; straight trunk with full and uniform canopy. Park grade not acceptable
QV6	Live Oak *Quercus Virginiana*	6" cal; min 15' ht;	Single trunk B&B; straight trunk with full and uniform canopy.

LAWN

SYMBOL	COMMON NAME *BOTANICAL NAME*	SIZE	REMARKS
	Bermuda Grass *Cynodon dactylon* *'Black Jack'*	Solid Sod Approx. 8,045 s.f.	

NOTE:
CONTRACTOR TO VERIFY PLANT QUANTITIES REQUIRED TO CARRY OUT DESIGN INTENT AS SHOWN ON PLANS.

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DRAWING TITLE: **PLANT LIST**

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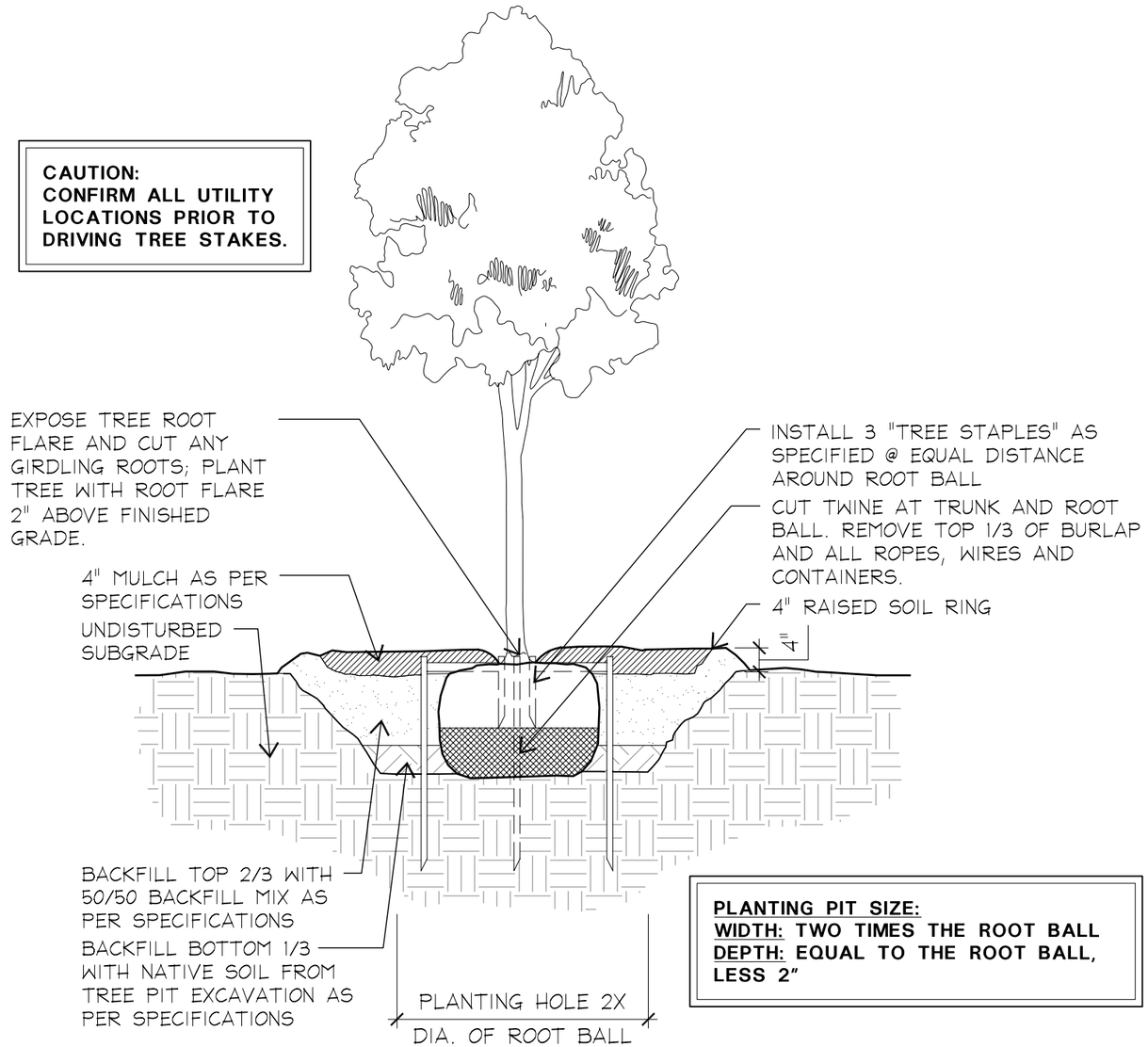
DRAWING NO. **L-301** REV. A

CAUTION:
CONFIRM ALL UTILITY LOCATIONS PRIOR TO DRIVING TREE STAKES.



PLANTING PIT SIZE:
WIDTH: TWO TIMES THE ROOT BALL
DEPTH: EQUAL TO THE ROOT BALL, LESS 2"

1 TREE STAKING DETAIL IN TURF

SECTION

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

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PLANTING DETAILS

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DRAWING NO. **L-302** REV. A

PART 1 GENERAL NOTES:

LANDSCAPE CONTRACTOR SHALL ACCEPT THE SITE IN ITS ROUGH GRADED CONDITION AND SHALL TIE NEW WORK TO EXISTING CONDITIONS AND CONTROLS (SUCH AS EXISTING GRADES AND WALK ELEVATIONS) AS NECESSARY TO MEET THE INTENT OF THE PLANS.

BEFORE PROCEEDING WITH ANY WORK IN AN AREA, LANDSCAPE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND SIZES AND SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL SITE CONDITIONS. IF ANY UTILITIES, SITE DEFECTS, OR OBSTRUCTIONS ARE DISCOVERED DURING CONTRACT WHICH MAY NOT HAVE BEEN KNOWN DURING DESIGN, CONTRACTOR SHALL STOP WORK AND IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT BEFORE PROCEDING. LANDSCAPE CONTRACTOR SHALL BE LIABLE FOR ALL MODIFICATIONS AND DAMAGE IF WORK PROCEEDS IN EITHER OF THE ABOVE SITUATIONS WITHOUT NOTIFYING LANDSCAPE ARCHITECT. PRIOR TO ANY EXCAVATION, LANDSCAPE CONTRACTOR SHALL CONTACT APPROPRIATE AUTHORITIES INCLUDING, BUT NOT LIMITED TO, TEXAS ONE CALL SYSTEM AT 1-800-245-4545 TO LOCATE EXISTING UNDERGROUND UTILITIES.

LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY DAMAGE TO ANY UTILITIES OR PROPERTY THAT MAY OCCUR IN THE EXECUTION OF HIS CONTRACT WORK. WHEN WORK REQUIRES CROSSING EXISTING WALKS OR CURBS WITH EQUIPMENT, LANDSCAPE CONTRACTOR SHALL PROVIDE APPROVED BRIDGE MATERIAL SUCH AS WOOD PLANKS AND EARTH TO PREVENT DAMAGE TO FINISHED WORK. LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS THAT MAY BE WORKING ON THE SITE SIMULTANEOUSLY AND SHALL COORDINATE STAGING OF HIS WORK WITH OWNER AND LANDSCAPE ARCHITECT. ALL TRASH AND DEBRIS GENERATED FROM CONTRACT OPERATIONS SHALL BE REMOVED ON A DAILY BASIS. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY IN CONJUNCTION WITH HIS CONTRACT WORK.

REFERENCES

A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) Z60.1 - NURSERY STOCK.
B. TEXAS STATE DEPARTMENT OF AGRICULTURE (TDA) - NURSERY FLORAL LICENSING PROGRAM.

1.1 SUBMITTALS FOR REVIEW

A. PRODUCT DATE: LIST OF CHEMICALS TO BE USED ON SITE.
B. SAMPLES:
   1. 1 QUART SAMPLES OF EACH SOIL AMENDMENT WITH ANALYTICAL DATA FROM A RECOGNIZED TESTING LABORATORY SHOWING MANUFACTURER'S GUARANTEED ANALYSIS.
   2. 1 CUBIC FOOT SAMPLES OF PREMIXED BACKFILL MIXES.
C. TEST RESULTS:
   1. PROVIDE SOIL SAMPLE TEST RESULTS INDICATING PH, FERTILITY LEVELS, AND PERCENTAGES OF SAND, SILT, AND CLAY.
   2. PROVIDE RECOMMENDATIONS FOR SOIL AMENDMENTS AND FERTILIZERS BASED ON SOIL ANALYSIS; FOR CONTRACT PURPOSES, USE MIXTURE SPECIFIED IN THIS SECTION.
D. NURSERY QUALIFICATIONS: COMPANY SPECIALIZING IN GROWING AND CULTIVATING PLANTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEAR DOCUMENTED EXPERIENCE, AND CERTIFIED BY THE STATE OF TEXAS.
E. INSTALLER QUALIFICATIONS:
   1. COMPANY SPECIALIZING IN LANDSCAPE INSTALLATION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.
   2. PROVIDE FULL-TIME SUPERINTENDENT ON-SITE DURING INSTALLATION.
F. PLANT MATERIALS:
   1. PLANT MATERIALS ARE SUBJECT TO EXAMINATION BY LANDSCAPE ARCHITECT AT PLACE OF GROWTH OR UPON DELIVERY TO PROJECT.

1.2 DELIVERY, STORAGE AND HANDLING

A. DELIVER FERTILIZER IN WATERPROOF BAGS SHOWING WEIGHT, GUARANTEED CHEMICAL ANALYSIS, MANUFACTURER & BRAND NAME, & APPROVALS OF AUTHORITIES HAVING JURISDICTION.
B. DELIVER PLANT MATERIAL WITH IDENTIFICATION TAG SHOWING BOTANICAL NAME AND PLANT SIZE.
C. DELIVER PLANT MATERIAL IMMEDIATELY PRIOR TO INSTALLATION; PLANT MATERIALS ON SAME DAY AS DELIVERED. IF PLANTING CANNOT BE ACCOMPLISHED ON SAME DAY AS DELIVERY, PROVIDE ADDITIONAL PROTECTION TO MAINTAIN PLANTS IN HEALTHY AND VIGOROUS CONDITION.
D. KEEP PLANT MATERIAL MOIST AND PROTECT FROM DAMAGE AND DESICCATION OF LEAVES UNTIL PLANTING.
E. DO NOT HANDLE PLANT MATERIALS BY STEM OR TRUNK.
F. KEEP CONTAINERS INTACT UNTIL JUST PRIOR TO PLANTING.

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1.3 SEQUENCING

A. INSTALL TREES, SHRUBS, AND LINER STOCK PLANT MATERIALS PRIOR TO INSTALLATION OF LAWNS.

1.4 WARRANTY

A. FURNISH WRITTEN WARRANTY THAT PLANT MATERIALS WILL BE IN HEALTHY, VIGOROUS, GROWING CONDITION ONE (1) YEAR AFTER FINAL ACCEPTANCE. DAMAGE DUE TO ACTS OF GOD, VANDALISM, OR NEGLIGENCE BY OWNER IS EXCLUDED.

B. REPLACE DEAD, UNHEALTHY AND UNSIGHTLY PLANT MATERIALS WITHIN WARRANTY PERIOD, UPON NOTIFICATION BY OWNER OR LANDSCAPE ARCHITECT.

C. NOTIFY OWNER AND LANDSCAPE ARCHITECT 30 DAYS PRIOR TO EXPIRATION OF WARRANTY PERIOD AND ARRANGE FINAL ACCEPTANCE INSPECTION BY ALL PARTIES.

1. REMOVE DEAD, UNHEALTHY, AND UNSIGHTLY PLANT MATERIALS.
2. REMOVE GUYING AND STAKING MATERIALS.
3. WARRANT REPLACEMENT PLANTS UNDER SAME PROVISIONS AND FOR SAME TIME PERIOD AS ORIGINAL PLANTS.

1.5 MAINTENANCE

1. MAINTAIN PLANT LIFE IMMEDIATELY AFTER PLACEMENT AND FOR NINETY (90 DAYS) AFTER FINAL ACCEPTANCE.
2. REPLACE DEAD OR DYING PLANTS WITH PLANTS OF SAME SIZE AND SPECIES SPECIFIED.
3. REMOVE TRASH, DEBRIS AND LITTER. WATER, PRUNE, FERTILIZE, WEED, AND MOW. SPOT APPLY HERBICIDES AND FUNGICIDE ONLY AS REQUIRED.
4. REMOVE CLIPPINGS AND DEBRIS FROM SITE PROMPTLY.
5. COORDINATE WITH OPERATION OF IRRIGATION SYSTEM TO ENSURE THAT PLANTS ARE ADEQUATELY WATERED. HAND WATER AREAS NOT RECEIVING ADEQUATE WATER FROM IRRIGATION SYSTEM.
6. RESET SETTLED PLANTS.
7. REAPPLY MULCH TO BARE AND THIN AREAS.

1.6 MATERIALS

A. PLANT MATERIALS:

1. CERTIFIED IN ACCORDANCE WITH TDA REQUIREMENTS.
2. SPECIES AND SIZE AS INDICATED IN PLANT SCHEDULE. LARGER SIZE MAY BE SUBSTITUTED WITHOUT ADDITIONAL COST TO OWNER, PROVIDED ROOT BALL OR SPREAD INCREASES PROPORTIONATELY.
3. WHERE MATERIALS ARE PLANTED IN MASSES, PROVIDE PLANTS OF UNIFORM SIZE.
4. GROWN IN CLIMATIC CONDITIONS SIMILAR TO THOSE AT SITE. FREE FROM DISEASE, INSECT INFESTATIONS, DEFECTS INCLUDING WEAK OR BROKEN LIMBS, CROTCHES, AND DAMAGED TRUNKS, ROOTS OR LEAVES, SUN SCALD, FRESH BARK ABRASIONS, EXCESSIVE ABRASIONS, AND OBJECTIONABLE DISFIGUREMENTS.
5. EXHIBIT NORMAL GROWTH HABITS; VIGOROUS, HEALTHY, FULL, WELL-PROPORTIONED, AND SYMMETRICAL.
6. NOT PRUNED, TRIMMED, OR TORTURED.
7. TREE TRUNKS TO BE STURDY AND EXHIBIT HARDENED SYSTEMS AND VIGOROUS AND FIBROUS ROOT SYSTEMS, NOT ROOT OR POT BOUND.
8. CONTAINER-GROWN STOCK: GROWN IN CONTAINERS FROM SEEDING.

B. TOPSOIL:

1. TOPSOIL SHALL BE SECURED FROM AN APPROVED OFFSITE LOCATION. IT SHALL BE FERTILE, FRIABLE, NATURAL LOAM CONTAINING A LIBERAL AMOUNT OF HUMUS AND SHALL BE CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE FREE OF STONES, LUMPS AND CLODS OF HARD EARTH 1/2 INCH DIAMETER AND GREATER, PLANTS OR THEIR ROOTS, STICKS AND OTHER EXTRANEOUS MATTER. UNDER NO CIRCUMSTANCES WILL TOPSOIL BE ACCEPTED UNLESS IT IS FREE OF THE AFOREMENTIONED CONTAMINENTS. USE OF NON-COHESIVE SANDY LOAM SHALL NOT BE ACCEPTED.

C. MULCH:

1. SHREDDED, COMPOSTED HARDWOOD BARK OF VARYING LENGTH BY NEW EARTH LLC OR GARDENVILLE OR APPROVED SUBSTITUTE. PARTIALLY DECOMPOSED; FREE FROM STICKS, STONES, CLAY, AND GROWTH AND GERMINATION-INHIBITING INGREDIENTS.

D. SOIL AMENDMENTS:

1. SOIL SULFUR: AGRICULTURAL GRADE SULFUR CONTAINING MINIMUM 99 PERCENT SULFUR EXPRESSED A ELEMENTAL.
2. IRON SULFATE: 20 PERCENT IRON EXPRESSED AS METALLIC IRON DERIVED FROM FERRIC AND FERROUS SULFATE AND 10 PERCENT SULFUR EXPRESSED AS ELEMENTAL. WHEN REQUIRED BY SOIL TESTS.
3. GYPSUM: AGRICULTURAL GRADE, CONTAINING MINIMUM 98 PERCENT CALCIUM SULFATE, WHEN REQUIRED BY SOIL TEST.
4. HERBICIDE: PRE-EMERGENT TYPE; SURFLAN OR APPROVED SUBSTITUTE.
5. FERTILIZER FOR TREES AT PLANTING: AGSAFE 20-10-5 PLANTING TABLETS PER LABEL INSTRUCTIONS.
6. FERTILIZER FOR LAWN: PLANT HEALTH CARE GROUP "PHC FOR TURF 15-1-6" OR APPROVED EQUAL ORGANIC FERTILIZER APPLIED AT A RATE OF SEVEN (7) POUNDS PER 1,000 SF.

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7. FERTILIZER FOR PLANTER BED MIX: MEDINA 4-2-3 GRANULAR ORGANIC FERTILIZER APPLIED PER LABEL INSTRUCTIONS.

E. TURF:

1. ALL SEED USED SHALL BE HIGH QUALITY, EXTRA FANCY, TREATED LAWN TYPE SEED AT 98% PURITY AND 85% GERMINATION, AND SHALL BE FURNISHED IN SEALED STANDARD CONTAINERS WITH SIGNED COPIES OF A STATEMENT FROM THE VENDOR CERTIFYING THAT EACH CONTAINER OF SEED DELIVERED IS FULLY LABELED IN ACCORDANCE WITH THE TEXAS STATE AGRICULTURAL CODE AND IS EQUAL TO OR BETTER THAN THE REQUIREMENT OF THESE SPECIFICATIONS. LAWN SEED TO BE FREE OF WEEDS OR NOXIOUS GRASS SEEDS.
2. SEED WHICH HAS BECOME WET, MOLDY OR OTHERWISE DAMAGED IN TRANSIT OR STORAGE WILL NOT BE ACCEPTED.
3. NATIVE SEED SHALL BE THE "CALICHE" MIX FROM NATIVE AMERICAN SEED CO. PH. 1-800-728-4043. SEED SHALL BE APPLIED AT A RATE OF 20# PER ACRE.
4. NATIVE SEED SCHEDULE:
   a. NATIVE GRASS SEED: APRIL 15-SEPTEMBER 15. IF SEEDING OCCURS FROM SEPTEMBER 15-APRIL 15 NATIVE SEED MIX SHALL INCLUDE ADDITION OF ANNUAL RYE GRASS.
5. "HYDRO-MULCH" AS MANUFACTURED BY CONWED, OR APPROVAL EQUAL.
6. THE HYDO-MULCH SHALL BE COMPOSED OF WOOD CELLULOSE FIBER AND CONTAIN NO GERMINATION OR GROWTH-INHIBITING FACTORS.
7. HYRO-SEEDING ADDITIVE (BINDER): ECOLOGY 'CONTROL-M BINDER' ORGANIC SEEDING ADDITIVE.
8. SOD: PROVIDE FULL, DARK GREEN, UNIFORM, STRONGLY ROOTED SOD IN 16" X 24" STRIPS FREE FROM WEEDS, UNDESIRABLE GRASSES, DISEASES AND PESTS. SOD SHALL BE CUT FROM THE FIELD NOT EARLIER THAN 48 HOURS BEFORE PLANTING. ROOTS OF SOD SHALL BE KEPT MOIST.
9. BRACING: TREE ANCHORS SHALL BE AS PER DETAILS.
10. TREE PAINT: MORRISION TREE SEAL, CABORT TREE PAINT, OR OTHER PRODUCT APPROVED BY LANDSCAPE ARCHITECT.
11. PLANTER BED EDGING SHALL BE 3/16" X 4" STEEL EDGING WITH MANUFACTURERS STANDARD GREEN FINISH.

F. MIXES:

1. PLANT BED MIX: FOR MASS SHRUB AND GROUNDCOVER PLANTING SHALL BE NEW EARTH'S 4 WAY MIX AS PRODUCED BY NEW EARTH LLC PH. 210-661-5180 OR GARDENVILLE LAWN AND GARDEN SOIL PH. 210-651-6115. DOCUMENTATION OF PURCHASE OF ONE OF THESE SPECIFIC MIXES SHALL BE SUBMITTED TO LANDSCAPE ARCHITECT. IF EQUAL IS PROPOSED, CONTRACTOR SHALL SUBMIT SAMPLE AND COMPLETE ANALYSIS WITH TEST RESULTS AND METHOD OF PRODUCTION FOR EVALUATION AS AN EQUAL SUBSTITUTE.

PART 2 EXECUTION:

2.1 PREPARATION

LANDSCAPE CONTRACTOR SHALL RECEIVE THE SITE AT A ROUGH SUB-GRADE ELEVATION 4" BELOW PROPOSED FINISH CONTOURS EXCEPT WHERE EXISTING UNDISTURBED FINISH GRADE IS TO BE LEFT UNCHANGED. THIS SUB-GRADE SURFACE SHALL BE CLEANED OF ALL SURFACE DEBRIS AND ALL MOUNDS SHALL BE RAKED OR BLADED OUT TO PROVIDE A UMIFORM SUB-GRADE SURFACE IN PREPERATION FOR TOPSOIL PLACEMENT. LANDSCAPE CONTRACTOR SHALL PROVIDE AND PLACE SPECIFIED TOPSOIL TO A 4" MINIMUM DEPTH. AT PLANT BED LOCATIONS LANDSCAPE CONTRACTOR SHALL EXCAVATE A MINIMUM DEPTH OF 8" BELOW PROPOSED FINISH GRADE AND FILL WITH PLANT BED MIX AS SPECIFIED AND DETAILED TO BRING THE SITE TO FINISHED GRADE. PRIOR TO PLANTING THESE FINISHED GRADES SHALL BE RAKED TO REMOVE ALL DEBRIS INCLUDING STICKS, CLODS AND STONES AND SHALL BE FINE GRADED TO ELIMINATE ALL HUMPS, RUTS, DEPRESSIONS AND ABRUPT CHANGES IN GRADE AND ANY AREA THAT COULD CAUSE WATER TO POND.

A. PRIOR TO PLANTING IF VEGETATION IS GROWING IN PLANTING/LAWN AREA, APPLY HERBICIDE AT RATES RECOMMENDED BY MANUFACTURER. ALLOW TO DIE, AND THEN GRUB OUT ROOTS TO MINIMUM 1/2 INCH DEPTH.

B. MARK LOCATION OF TREES AND OUTLINES OF PLANT BEDS USING COLORED WOOD STAKES OR FLAGS PRIOR TO BEGINNING PLANTING; OBTAIN LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO PROCEEDING.

2.2 PLANTING TREES AND SHRUBS

A. REMOVE CONTAINERS WITHOUT DAMAGE TO ROOTS.

B. REMOVE BOTTOM OF PLANT BOXES PRIOR TO PLACING PLANTS; REMOVE SIDES AFTER PLACEMENT AND PARTIAL BACKFILLING. PREVENT DAMAGE TO ROOTS.

C. REMOVE UPPER THIRD OF BURLAP FROM BALLED AND BURLAP TREES AFTER PLACEMENT.

D. PLACE PLANT UPRIGHT AND PLUMB IN CENTER OF HOLE. PULL ANY WEEDS GROWING IN TREE BALL AND EXPOSE ROOT FLARE (THIS WILL BE THE TOP MOST IDENTIFIABLE ROOT), REMOVE ANY GIRDLING ROOTS AND SET PLANT SO THAT ROOT FLARE IS 1" ABOVE FINISH GRADE. ORIENT PLANTS FOR BEST APPEARANCE. BACKFILL THE BOTTOM 1/3 OF THE EXCAVATION WITH SOIL CUT FROM EXCAVATION OF PIT AND THOROUGHLY WATER THIS SOIL TO SETTLE IN. BACKFILL THE REMAINDER OF THE EXCAVATION WITH A 50/50 MIX OF PLANT BED MIX AND NATIVE SOIL EXCAVATED FROM THE PIT. LIGHTLY TAMP AND WATER SOIL TO REMOVE ALL AIR POCKETS AND FERTILIZE USING AGSAFE 20-10-5 PLANTING TABLETS AS SPECIFIED. FOR PLANTS OUTSIDE OF PLANTING BEDS, CONSTRUCT 4 INCH HIGH WATER CONTAINMENT RING AROUND PLANT. SPREAD MULCH TO MINIMUM 4 INCH DEPTH OVER PLANT BASIN. KEEP MULCH 3" FROM TRUNK.

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E. ADJUST PLANT HEIGHT IF SETTLEMENT OCCURS AFTER BACKFILL AND STAKE AS DETAILED.
   1. TWO TO THREE WEEKS FOLLOWING PLANTING, INJECT PLANT HEALTH CARE INJECTABLE INOCULANT AROUND ROOT BALL FOLLOWING MANUFACTURER'S DIRECTIONS AND APPLICATION RATES. CONTACT LANDSCAPE ARCHITECT TO OBSERVE THIS OPERATION.
F. TRIM PLANTS TO REMOVE DEAD AND INJURED BRANCHES ONLY. TREAT CUTS OVER 3/4 INCH DIAMETER WITH TREE PAINT.
G. BRACE PLANTS OVER 65 GALLONS SIZE IMMEDIATELY AFTER PAINTING:
   1. FOR TREES 2" CAL. AND GREATER PROVIDE STAKING AS DETAILED. POSITION TO PREVENT HAZARDS TO PEDESTRIANS.
   2. DO NOT RESTRICT PLANT MOVEMENT UNDER LIGHT WIND LOADS OR DAMAGE BARK.

2.3 PLANT BEDS (PLANTING MASS SHRUBS, GROUNDCOVERS), AND ANNUALS (SEE DETAILS)

A. EXCAVATE PLANT BED TO DEPTH AS DETAILED ON PLANS.
B. BACKFILL WITH SPECIFIED 4-WAY MIX AND FERTILIZER AS SPECIFIED FOLLOWING MANUFACTURERS INSTRUCTIONS.
C. INSTALL METAL EDGINGS TO SEPARATE ALL PLANTER BEDS FROM TURF AND AT LOCATIONS INDICATED ON PLANS.
D. PLACE PLANTS IN STRAIGHT, EVENLY SPACED ROWS AT SPACING INDICATED ON DRAWINGS, TO UNIFORMLY FILL BEDS. USE TRIANGULAR SPACING METHOD UNLESS OTHERWISE INDICATED.
E. WATER PLANTS THOROUGHLY IMMEDIATELY AFTER PLANTING. REPAIR SETTLED AREAS.
F. ADJUST FINAL GRADES TO 1/2 INCH BELOW ADJACENT PAVING CURBS.
G. SPREAD MULCH TO MINIMUM 4 INCH DEPTH OVER PLANT BEDS AS DETAILED.

2.4 CLEANING AND ADJUSTING

A. REMOVE PLANT CONTAINERS, TRASH, RUBBISH, AND EXCESS SOILS FROM SITE DAILY AND AT COMPLETION OF TREE, SHRUBS AND GROUNDCOVER PLANTING.
B. REPAIR RUTS, HOLES AND SCARS IN GROWING SURFACE.

2.5 LAWN APPLICATION

A. COORDINATION:
   1. HYDROMULCH AND SOD AFTER TREE, SHRUB AND GROUNDCOVER INSTALLATION IS COMPLETE.
   2. CONTRACTOR TO COORDINATE WITH IRRIGATION CONTRACTOR TO INSURE FUNCTIONAL IRRIGATION SYSTEM PRIOR TO ANY LAWN INSTALLATION.
B. PREPARATION:
   1. PRE-PLANT WEED CONTROL: IF WEEDS EXIST WITHIN PROPOSED LANDSCAPE AREAS AT THE BEGINNING OF WORK, SPRAY WITH A NON SELECTIVE SYSTEMIC CONTACT HERBICIDE, AS RECOMMENDED AND APPLIED BY AN APPROVED LICENSED APPLICATOR. CLEAR AND REMOVE THESE EXISTING WEEDS UPON HERBICIDE'S COMPLETED ACTION BY GRUBBING OFF ALL PLANTS AT LEAST 1/2"-1" BELOW THE SURFACE OF THE SOIL.
   2. CONTRACTOR TO SCARIFY GROUND SURFACE TO A MINIMUM 2" DEPTH FOR ALL GRASSES AND REMOVE ALL STICKS, TRASH, ROCKS AND OTHER DERIS AND DISPOSE OFF SITE.
   3. IF EXISTING SOIL IN AN AREA IS FOUND TO BE CONTAMINATED OR OTHERWISE UNSUITABLE, CONTRACTOR SHALL PROVIDE COST PER CUBIC YARD TO REPLACE WITH SOIL SUITABLE FOR TURF.
   4. CONTRACTOR TO RAKE ENTIRE AREA, LEVELING ANY IMPERFECTIONS IN THE GRADE. LANDSCAPE CONTRACTOR TO ENSURE THAT THERE WILL BE POSITIVE DRAINAGE AND NO PONDING ON SITE. FINISHED GRADE OF LAWN AREAS TO BE 1/2" BELOW TOP OF CURBS, SIDEWALKS AND OTHER PAVEMENTS. REMOVE ANY LARGE (GREATER THAN 1") DIRT CLODS, ROCKS, AND TRASH AND PREPARE A SMOOTH, LEVEL, LOOSE AND COARSE SURFACE. LANDSCAPE ARCHITECT TO APPROVE FINE GRADING PRIOR TO ANY LAWN INSTALLATION. LAWN BED SHALL BE MOIST (BUT NOT MUDDY) TO RECEIVE SEED AND SOD.
C. SOD INSTALLATION:
   1. INCORPORATE SPECIFIED LAWN FERTILIZER AT SEVEN (7) POUNDS PER 1000 SQUARE FEET OF LAWN AREA FOR SOD.
   2. PRE-EMERGE HERBICIDE APPLICATION: APPLY RECOMMENDED HERBICIDE TO LABEL INSTRUCTIONS IN TWO APPLICATIONS. THE FIRST APPLICATION WILL BE UP TO 10 DAYS PRIOR TO PLANTING. THE SECOND APPLICATION WILL BE 5 DAYS PRIOR TO PLANTING. USE CARE TO AVOID WIND DRIFT OR RUNOFF TO ADJACENT ORNAMENTAL TREE OR SHRUB PLANTINGS.
   3. LAY SOD WITHIN 24 HOURS FROM TIME OF STRIPPING.
   4. LAY SOD TO FORM SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD; REMOVE EXCESS SOD TO AVOID SMOTHERING ADJACENT GRASS.
   5. SOD PADS SHALL BE OF FULLEST SIZE POSSIBLE-NO SOD SLIVERS WILL BE PERMITTED.
   6. FINISHED GRADE OF NEW SOD SHALL BE FLUSH WITH ADJACENT LAWN AND PAVEMENT. ENSURE POSITIVE DRAINAGE.
   7. ROLL ENTIRE SODDED AREA WITH SOD ROLLER. WATER SOD THOROUGHLY.
   8. CONTRACTOR SHALL OVERSEED SOD AREAS WITH ANNUAL RYE GRASS IF LAWN INSTALLATION OCCURS SEPTEMBER 15 THROUGH APRIL 15 AT 8 LBS. PER 1,000 S.F.
   9. SHOULD LAWN AREAS BE SEEDED W/ ANNUAL RYE GRASS, CONTRACTOR SHALL RETURN TO SITE BETWEEN APRIL 15 - MAY 15 TO RE-PREPARE SEED BED & SEED W/ BERMUDA.

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DESIGNED BY:
CHECKED BY: SW
PROJECT MGR.: SW

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PLANTING NOTES SHEET 4

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2.6 ACCEPTANCE

A. PRIOR TO SCHEDULING A SUBSTANTIAL COMPLETION INSPECTION LANDSCAPE CONTRACTOR SHALL THOUROUGHLY CLEAN SITE OF ALL DEBRIS AND TRASH AND REPAIR ANY DAMAGE TO FINISH GRADE. WHEN LANDSCAPE WORK IS COMPLETE A SUBSTANTIAL COMPLETION INSPECTION WILL BE HELD. FOLLOWING COMPLETION OF ANY PUNCH LIST ITEMS GENERATED FROM THE SUBSTANTIAL COMPLETION INSPECTION A FINAL INSPECTION WILL BE HELD AND IF FOUND ACCEPTABLE A CERTIFICATE OF FINAL ACCEPTANCE WILL BE ISSUED.

B. LANDSCAPE CONTRACTOR SHALL CONTINUE MAINTENANCE UNTIL FINAL ACCEPTANCE AT WHICH TIME THE SPECIFIED MAINTENANCE PERIOD WILL BEGIN.

END OF SPECIFICATIONS

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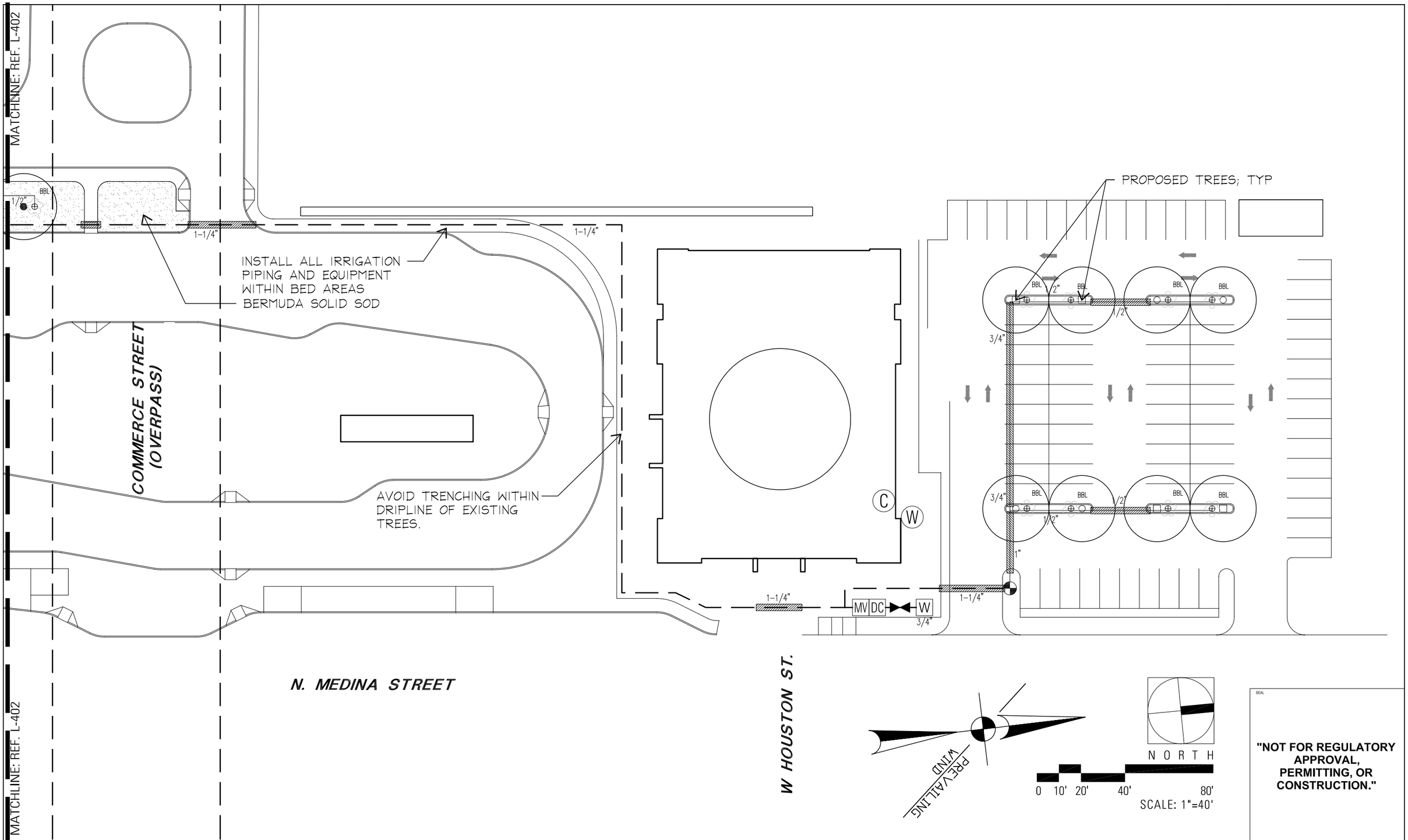

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DRAWING TITLE
IRRIGATION PLAN SHEET 1

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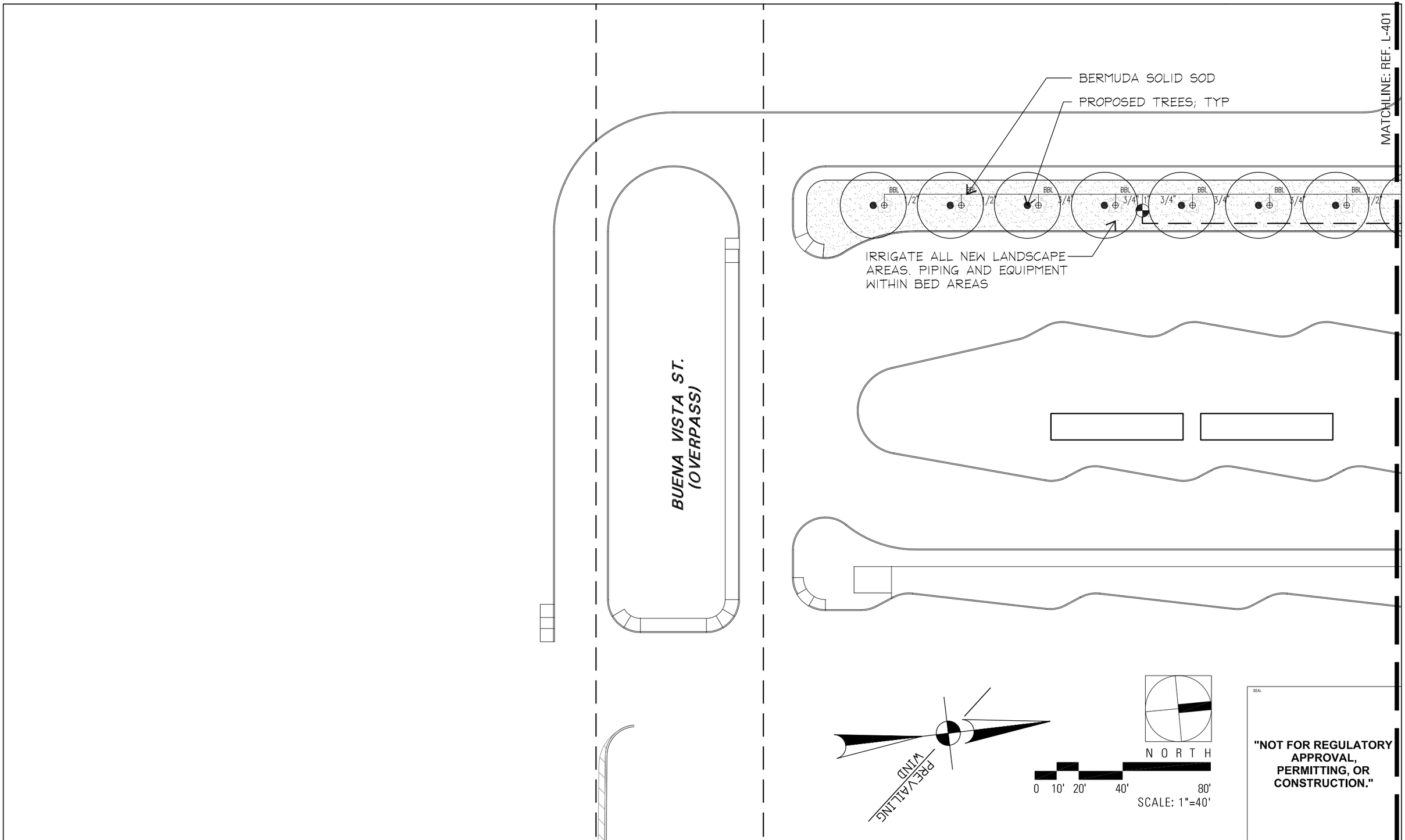

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IRRIGATION PLAN SHEET 2

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DRAWING NO. **L-402** REV. A

W — 3/4" DEDICATED IRRIGATION WATER METER.

DC — 1" DOUBLE CHECK BACKFLOW PREVENTER IN SEPARATE VAULT.

MV — RAINBIRD 150-PEB MASTER VALVE IN SEPARATE BOX.

R # — RAINBIRD 5004 POP-UP ROTARY HEAD. NOZZLES PER PLAN; 360° OR ADJ BASED ON APPLICATION IN FIELD.

RAINBIRD 1804-PRS POP-UP SPRAY HEAD - WITH MPR NOZZLE PER PLAN IN TURF AREAS.

RAINBIRD 1804-PRS POP-UP IN TURF AREAS WITH VARIABLE ARC NOZZLES AND RADIUS AS SPECIFIED ON PLAN.

RAINBIRD 5004-PRS 4" POP-UP ROTARY HEAD. NOZZLES PER PLAN; 360° OR ADJ BASED ON APPLICATION IN FIELD.

15Tg(s)

INDICATES MANUFACTURER'S STANDARD CATALOGED SPACING WITHOUT WIND. ALLOWANCE THIS NUMBER IS FOR REFERENCE ONLY AND DOES NOT INDICATE ACCEPTANCE OF DEVIATION FROM DESIGN SPACING TO THIS STANDARD.

INDICATES ANGLE OF COVERAGE, FOR EXAMPLE; H=180 DEG SUB-LETTER "g" INDICATES GROUND COVER. 's' INDICATES SHRUB APPLICATION.

INDICATES 2 TREE BUBBLERS - ON 6" POP-UP.

C — CONTROLLER - RAINBIRD ESP-LX-16, FINAL LOCATION IS TO BE DETERMINED AFTER CONSULTING WITH OWNER.

W — WEATHER SENSOR - RAINBIRD WR2 WIRELESS RAIN SENSOR. FINAL LOCATION IS TO BE DETERMINED BY OWNER AFTER CONSULTING WITH OWNER.

REMOTE CONTROL VALVE - SIZE AS NOTED ON PLAN.

QUICK COUPLING VALVE

MANUAL VALVE- SIZE OF MAINLINE

#
#"|##

ZONE INDENTIFICATION
ZONE SIZE IN GALLONS PER MINUTE.
VALVE SIZE THIS ZONE.

MAIN LINE - USE CLASS 200 PVC PIPE, SIZE AS DESIGNATED ON PLANS.

1-1/2"

LATERAL LINE - SIZE AS NOTED ON PLAN. DO NOT DEVIATE ON SIZING WITHOUT CONSULTING WITH PROJECT DESIGNER. USE CLASS 315 ON 1/2" PIPE AND CLASS 200 IPS PVC ON 3/4" AND LARGER PIPE.

SLEEVE - SLEEVES FOR IRRIGATION USE. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL SLEEVES PRIOR TO STARTING WORK. DO NOT EXCAVATE UNDER EXISTING HARDSCAPE WHEN LOCATING SLEEVES. ANY DAMAGE DONE WHILE LOCATING SLEEVES SHALL BE THE IRRIGATION CONTRACTORS RESPONSIBILITY. NEW SLEEVES TO BE TWICE THE DIAMETER OF PIPE BEING RUN.

NOTE: Irrigation Details- Refer to Sheet L-501 TO L-503

3 LEGEND

NOT TO SCALE

TYPICAL WEEKLY SCHEDULE BASED ON PRECIPITATION RATE

Precipitation Rate (in/hr)		Water Desired (in/wk)	Time/Cycle (min)	No. of Zones	Total Time * Min.	Hrs.
Spray Zones	1.44	.80	33.0			
Drip Zones	.43	.80	111.0			
Bubbler Zones	3.87	.80	15.0			
Rotor Zones	.65	.80	73.0			
Total System Hours of Operation Per Week						

* IT WILL BE NECESSARY TO DIVIDE WATERING TIME INTO 2 TO 3 CYCLES TO MINIMIZE RUNOFF. A TYPICAL SCHEDULE WOULD ALLOW WATERING TO OCCUR TWO TIMES PER WEEK. TOTAL WATERING TIME WOULD BE DIVIDED BY THE NUMBER OF WATERING DAYS. THIS SCHEDULE IS DESIGNED FOR SUMMER WATER USAGE AND ESTABLISHMENT OF NEW PLANTING.

2 VALVE SCHEDULE

NOT TO SCALE

PRESSURE REQUIREMENT CALCULATIONS @ ZONE No. 1	
DESIGN STATISTICS FOR CALCULATIONS	
Total Zone Flow:	
Electric Valve Size:	
Static Pressure Less 10% (static @ 65 psi):	
ACCUMULATIVE LOSSES FROM CITY MAIN TO FURTHEST HEAD	
Sprinkler head requirement:	
Zone Pipe/Fitting Loss:	
1.5" Electric Valve Loss:	
Elevation Net Loss (+0 FT.):	
System Mainline Loss (1.5" CLASS 200 LoopMain):	
Backflow Preventer Loss (1.5"):	
Water Meter Loss (1.5"):	
Master Electric Valve Loss:	
Type K Copper Service Loss:	
Total Net Loss:	
Design Pressure:	

Notes: System requires a minimum of 55 psi static pressure for system to operate properly. Irrigation Contractor shall conduct on site pressure test to verify site pressure prior to starting work. Contractor shall notify Owner's Representative of pressure defficiencies or any other on site problems that may alter the effectiveness of the system.

STATEMENT OF IRRIGATION DESIGN STANDARDS CONFORMITY:
This plan is complete and conforms to the design and installation parameters of the irrigation design and equipment standards set out in 35-510(j) and 35-511(c)(6) of the City of San Antonio Unified Development Code.

1 CRITICAL ZONE CHART

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PARSONS NO. 445738
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DRAWING TITLE
IRRIGATION LEGEND

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. L-403 | REV. A

1. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH THE DRAWINGS, DETAILS, NOTES AND/OR SPECIFICATIONS. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO NOTIFY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE FOR SITE INSPECTIONS AS SPECIFIED. FAILURE TO PROVIDE NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR OF INSPECTION APPROVAL AND WILL REQUIRE THE CONTRACTOR TO UNCOVER WORK FOR INSPECTION AND APPROVAL AT THE CONTRACTOR'S EXPENSE. IRRIGATION CONTRACTOR IS TO INFORM LANDSCAPE ARCHITECT OF THE START DATE OF WORK.
2. THE IRRIGATION CONTRACTOR IS REQUIRED BY LAW TO NOTIFY TEXAS ONE CALL (1-800-245-4545) 48 HOURS PRIOR TO ANY EXCAVATION. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. IRRIGATION CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES WHETHER OR NOT TEXAS ONE CALL IS NOTIFIED.
3. DO NOT PROCEED WITH CONSTRUCTION WITHOUT VERIFYING ACTUAL ON-SITE WATER PRESSURE FROM THE SOURCE. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN TAKEN INTO ACCOUNT DURING DESIGN. ANY DEVIATION IN CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER TRADES WHICH MIGHT BE REQUIRED TO ACCOMPLISH IRRIGATION INSTALLATION.
5. DUE TO SCALE OF DRAWINGS, IT IS NOT ALWAYS POSSIBLE TO ACCURATELY INDICATE ALL OFFSETS, FITTINGS SLEEVES, ETC... IRRIGATION CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS ON-SITE AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO ADDRESS SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS AND WITHIN PROPERTY LINES.
6. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPING WITH THE LANDSCAPE SUBCONTRACTOR TO AVOID CONFLICT WITH PLANTING BEDS. IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION SUBCONTRACTOR TO MOVE PIPING TO ALLOW PROPER PLACEMENT OF PLANT MATERIAL. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE IN PLANTING AREAS AT NO ADDITIONAL COST TO THE OWNER.
7. NO MACHINE TRENCHING IS TO BE DONE WITH DRIPLINE OF TREES. TRENCHING IS TO BE DONE BY AIRSPADE, BY HAND OR BY TUNNELING UNDER ROOT SYSTEM WITH METHOD APPROVED BY LANDSCAPE ARCHITECT. PIPING LAYOUT IS DIAGRAMMATIC AND PIPING SHALL BE ROUTED AROUND EXISTING PLANT MATERIAL TO AVOID DAMAGE TO EXISTING PLANTS. DO NOT CUT ANY ROOT OVER 3/4" DIAMETER. ANY CUTS MADE SHALL BE CLEAN AND WITHOUT FRAYED ENDS.
8. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR SLEEVES AND CHASES, UNLESS NOTED "SLEEVES BY OTHERS", AS REQUIRED TO COMPLETE THE IRRIGATION AS DESIGNED. ALL SLEEVE LOCATIONS MAY NOT BE SHOWN ON PLAN, COORDINATE WITH CIVIL DRAWINGS, GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS AS REQUIRED. ALL SLEEVES SHALL BE SCH 40 PVC, SIZED TWICE THE DIAMETER OF PIPE OR COMBINATION OF PIPES ENCLOSED WITHIN THE SLEEVE.
9. CONFIRM STATIC WATER PRESSURE ON SITE AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS LESS THAN STATED IN PRESSURE CALCULATIONS CONTACT LANDSCAPE ARCHITECT FOR INSTRUCTIONS. IF ACTUAL SITE STATIC PRESSURE EXCEEDS DESIGN PRESSURE BY 15 P.S.I. IN ANY ZONE, A PRESSURE REDUCING VALVE SHALL BE INSTALLED.
10. PRESSURE AT ANY POINT WITHIN A ZONE SHALL NOT VARY BY MORE THAN 10% FROM THE DESIGN OPERATING PRESSURE.
11. ALL IRRIGATION WORK SHALL BE INSTALLED UNDER THE SUPERVISION OF A QUALIFIED IRRIGATION PROFESSIONAL. A STATE LICENSED IRRIGATOR OR IRRIGATION CONTRACTOR (WITHIN THE STATE OF TEXAS) OR A CIC/CID CERTIFICATION THROUGH THE IRRIGATION ASSOCIATION OUTSIDE THE STATE OF TEXAS.
12. OBTAIN COVERAGE TEST APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO PLANTING, SODDING OR SEEDING.
13. ALL UNDESIGNATED END LATERAL PIPING SHALL BE ½" IN SPRAY ZONES AND ¾" IN ROTOR ZONES.
14. HEAD TO HEAD COVERAGE SHALL BE MAINTAINED THROUGHOUT THE SYSTEM. SPRINKLER HEAD SPACING SHALL NOT EXCEED 50% OF SPRAY DIAMETER BASED ON MANUFACTURERS OPERATING SPECIFICATIONS.
15. ALL ROTORS SHALL BE LOCATED 12" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE, ALL SPRAY HEADS SHALL BE LOCATED 6" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE. ADJUST COVERAGE TO AVIOD OVERSPRAY ONTO HARDSCAPE AND BUILDINGS.
16. UNDER NO CIRCUMSTANCES ARE ZONE TYPES TO BE COMBINED I.E. ROTARY HEADS WITH SPRAYS, TURF AREAS WITH PLANTING BEDS.
17. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO SECURE ALL REQUIRED PERMITS AND PAY ALL ASSOCIATED IMPACT FEES UNLESS OTHERWISE NOTED. ALL STATE AND LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES CONTAINED IN THESE DOCUMENTS.
18. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY. INSTALL PIPES IN ADJACENT SLEEVES WITHIN LANDSCAPE AREAS.
19. ELECTRIC POWER SHALL BE PROVIDED TO CONTROLLER OR OTHER ASSOCIATED IRRIGATION EQUIPMENT WITHIN SCOPE OF IRRIGATION WORK BY GENERAL CONTRACTOR. IRRIGATION CONTRACTOR SHALL PROVIDE FINAL HARD-WIRE TO CONTROLLERS AND EQUIPMENT.

STATEMENT OF IRRIGATION DESIGN STANDARDS CONFORMITY:

This plan is complete and conforms to the design and installation parameters of the irrigation design and equipment standards set out in 35-510(j) and 35-511(c)(6) of the City of San Antonio Unified Development Code.

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1 CONSTRUCTION NOTES:

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IRRIGATION CONSTRUCTION NOTES

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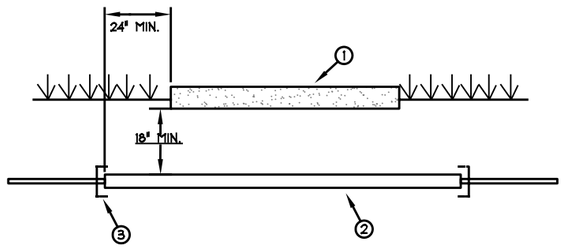
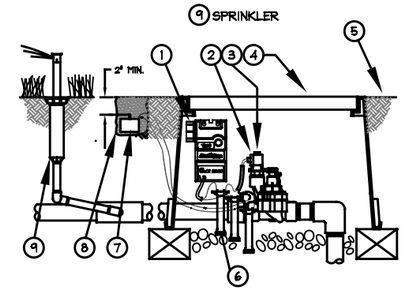


1. SITE FLATWORK
2. SLEEVES FOR FUTURE USE SHALL BE 4" SCH 40 PVC
3. PROVIDE SCH 40 PVC CAPS @ EACH END FOR SLEEVES INSTALLED FOR FUTURE USE.

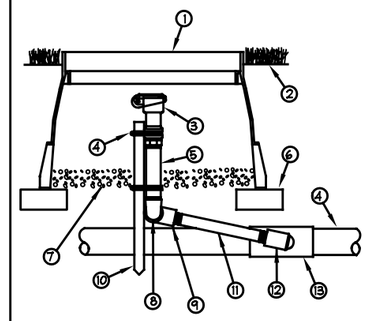
NOTE: Provide dimensioned locations of all sleeves on record drawings.

IRRIGATION SLEEVE DETAIL

1. RAIN BIRD TBOS CONTROL MODULE
2. RAIN BIRD TBOS SOLENOID
3. REMOTE CONTROL VALVE
4. VALVE BOX WITH COVER
5. FINISH GRADE
6. WATERPROOF CONNECTION: RAIN BIRD "QUICK CONNECT"
7. TBOS RAIN SHUT-OFF DEVICE
8. UNIFORM GRADED MEDIUM SAND, 35 TO 60 MESH SIZE
9. SPRINKLER

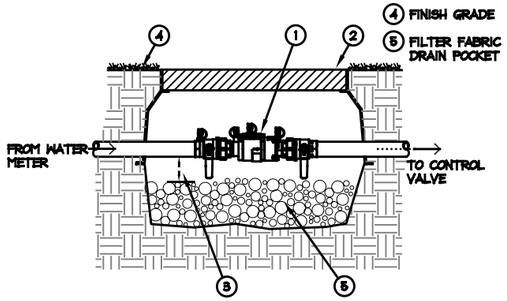


TBOS BATTERY CONTROLLER



1. 10" VALVE BOX WITH PURPLE COVER
2. FINISH GRADE
3. QUICK-COUPLING VALVE: RAIN BIRD MODEL 33DNP
4. STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM
5. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
6. BRICK (1 OF 2)
7. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
8. PVC SCH 40 ELL
9. PVC SCH 40 STREET ELL
10. REBAR STAKE WITH
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 STREET ELL
13. PVC SCH 40 TEE
14. PVC MAINLINE PIPE

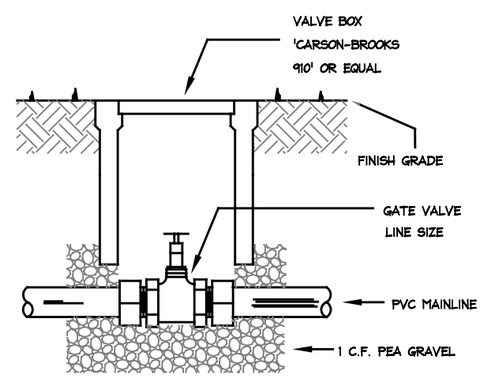
RAIN BIRD 33DNP QUICK COUPLER



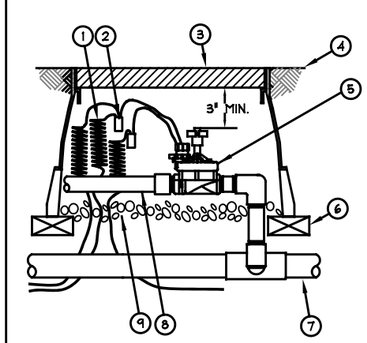
1. FEBCO 1-1/2" DOUBLE CHECK BACKFLOW ASSEMBLY
2. CARSON INDUSTRIES H1730-18 BOX WITH 1730-P1 LID.
3. PROVIDE CLEARANCE BETWEEN BFP AND VAULT AS REQUIRED BY CODE
4. FINISH GRADE
5. FILTER FABRIC & GRAVEL DRAIN POCKET

NOTE:
INSTALL BACKFLOW PREVENTER AS REQUIRED BY TCEQ AND LOCAL SAWS (SAN ANTONIO WATER SYSTEMS) CODES. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.

FEBCO 850 DOUBLE CHECK DEVICE



BRASS GATE VALVE



1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATER PROOF CONNECTION (1 OF 2)
3. VALVE BOX WITH COVER: 12-INCH SIZE PURPLE NP COVER
4. FINISH GRADE
5. REMOTE CONTROL VALVE: RAIN BIRD PEB
6. BRICK (1 OF 4)
7. PVC MAINLINE PIPE
8. PVC LATERAL PIPE
9. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

RAIN BIRD PESB-NP SERIES VALVE

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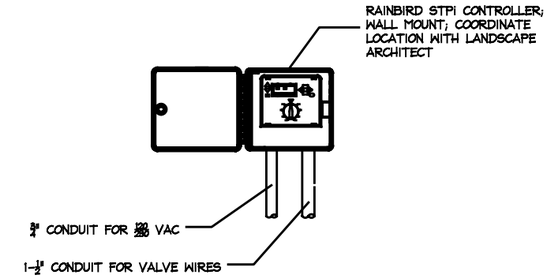
VIA CONTRACT NO.

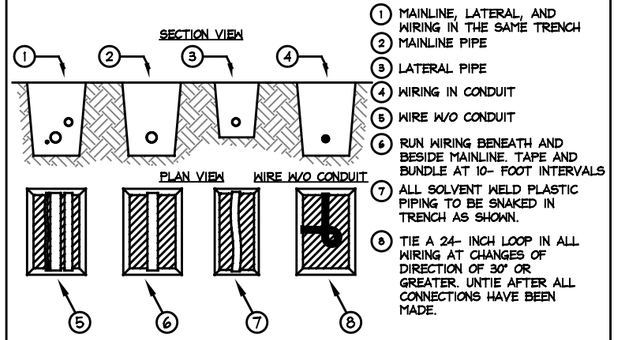
DRAWING TITLE
IRRIGATION DETAILS
SHEET 1

65% DOCUMENTS | JUNE 25, 2010
DRAWING NO. L-501 | REV. A



NOTES:
1. All electrical work to comply with applicable codes.
2. Provide remote control unit per spec.

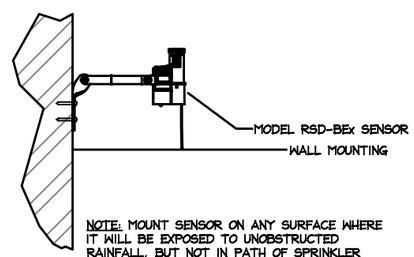
RAINBIRD STPi CONTROLLER



1. MAINLINE, LATERAL, AND WIRING IN THE SAME TRENCH
2. MAINLINE PIPE
3. LATERAL PIPE
4. WIRING IN CONDUIT
5. WIRE W/O CONDUIT
6. RUN WIRING BENEATH AND BESIDE MAINLINE. TAPE AND BUNDLE AT 10- FOOT INTERVALS
7. ALL SOLVENT WELD PLASTIC PIPING TO BE SNAKED IN TRENCH AS SHOWN.
8. TIE A 24- INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.

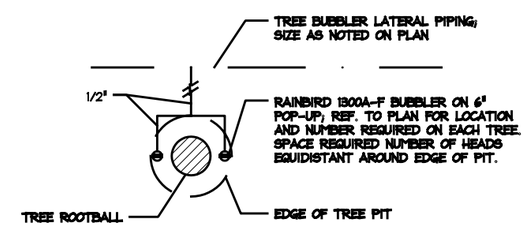
NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

TRENCH DETAIL



NOTE: MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY, NO MORE THAN 300' FROM RECEIVER UNIT. MOUNT RECIEVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.

RAINBIRD RSD-BEx WEATHER SENSOR



TREE BUBBLER ASSEMBLY

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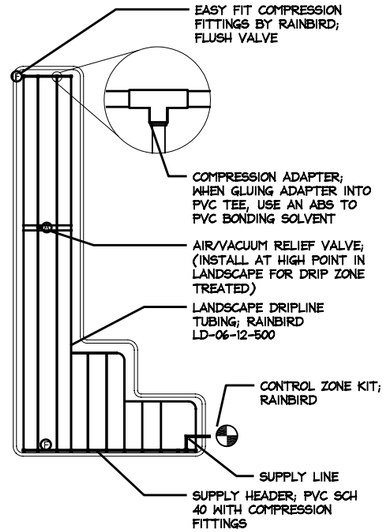
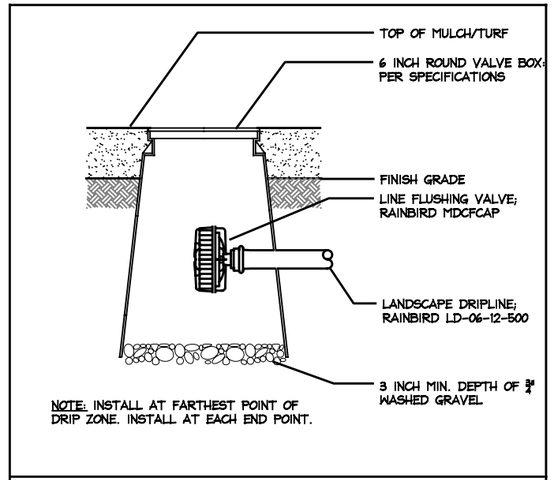
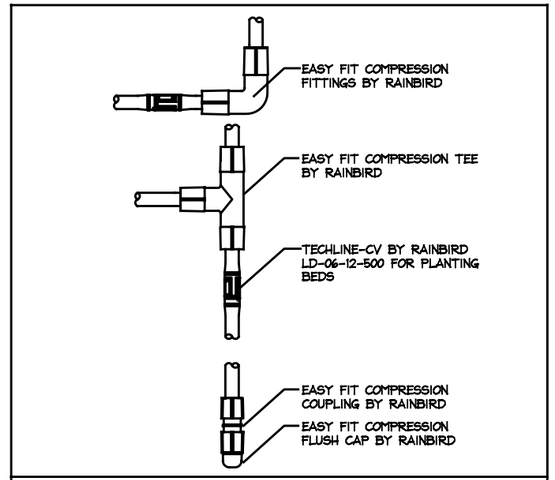


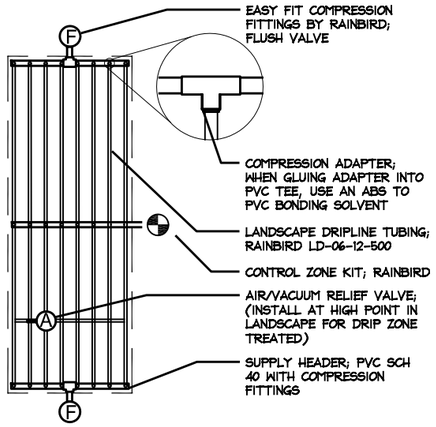
DRIP INSTALLATION (END FEED)



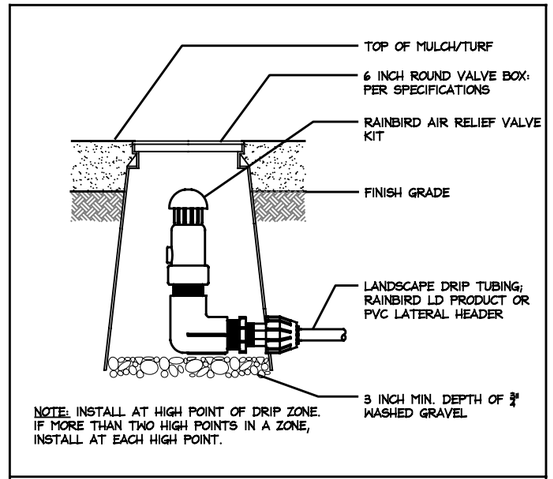
LINE FLUSHING VALVE



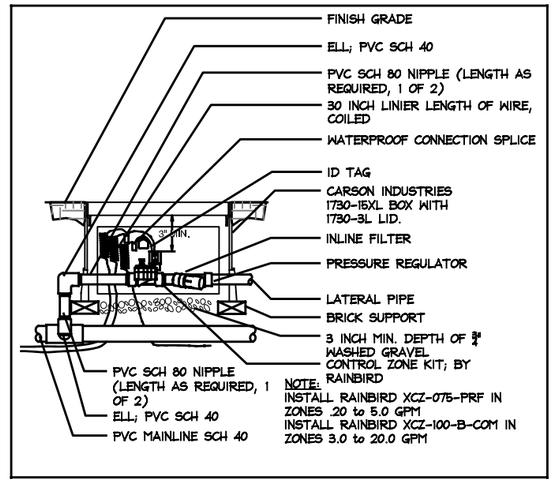
DRIP COMPRESSION FITTINGS



DRIP INSTALLATION (CENTER FEED)



RAINBIRD AIR-RELIEF VALVE



DRIP CONTROL ZONE VALVE

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DRAWING TITLE
IRRIGATION DETAILS SHEET 3

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DRAWING NO. **L-503** REV. A

GENERAL

1. DESCRIPTION OF WORK

A. Work Included: Perform all work with approved materials, labor, equipment, transportation, and services required and necessary for the construction of the project as indicated. Such work includes, but is not limited to, the following:

1. Furnishing and installing irrigation system complete.
2. Trenching and backfill.
3. Furnishing and installing irrigation main, laterals, and fittings.
4. Furnishing and installing electric controllers, backflow devises, manual gate valves and metal security boxes if required.
5. Furnishing and installing all irrigation heads and nozzles.
6. Furnishing and installing all electric valves and wiring (sizes on plan).
7. Boring under paved areas if required.

B. By Others: The following items of work will be performed by others in this contract:

1. Electrical stubouts for irrigation controllers.
2. Water stubouts for irrigation system.
3. Installation of water meters.
4. Sleeves for irrigation piping and remote control valve wiring under pavements.

2. INSPECTION OF CONDITIONS: Examine related work and surfaces before starting work of this Section. Report to Owner's Representative or Landscape Architect in writing, conditions which will prevent the proper provision of this work. Beginning the work of this Section without reporting unsuitable conditions to the Owner's Representative or Landscape Architect constitutes acceptance of conditions by the Contractor. Any required removal, repair, or replacement of this work caused by unsuitable conditions to be done at no additional cost to the owner.

3. LOCAL REQUIREMENTS: It is the responsibility of the irrigation contractor to obtain information concerning local codes and requirements for the installation of irrigation.

4. DRAWINGS: The drawings showing the work covered by this Section are diagrammatic. Exact locations of irrigation mains, laterals, heads and related items shall be staked in the field prior to the execution of the work.

5. SUBSTITUTIONS:

A. Specific reference to manufacturer's names and products specified in this Section are used as standards; this implies no right to substitute other material or methods without written approval of the Owner's Representative or the Landscape Architect.

B. Installation of any approved substitution is contractor's responsibility. Any changes required for installation of any approved substitution must be made to the satisfaction of the Owner's Representative or the Landscape Architect and without additional cost to the Owner.

C. Approval by Owner's Representative or Landscape Architect of substituted equipment and/or dimensional drawings does not waive these requirements.

6. PROTECTION OF EXISTING CONDITIONS:

A. Contractor shall aquaint himself with site conditions, should Contractor notice anything that could cause any any problems he should make it known to Owner's Representative or Landscape Architect as soon as possible

B. Contractor shall take necessary precautions to protect existing site conditions and plants to remain. Should damage be incurred, the Contractor shall repair damage or restore to its original condition or furnish and install equal replacement at his expense.

7. COORDINATION: Coordinate and cooperate with other Contractors to enable the work to proceed as rapidly and efficiently as possible.

8. PRODUCT HANDLING: Protect work and materials under this Section from damage during construction and storage. Protect polyvinyl chloride (PVC) pipe and fittings from direct sunlight. Beds on which pipe is stored must be full length of pipe. Do not use any pipe or fitting which has been damaged or dented.

9. SAMPLES: Owner's Representative or Landscape Architect reserves the right to take and analyze samples of materials for conformity to the specifications at any time. Contractor shall furnish samples upon request by Owner's Representative or Landscape Architect. Rejected materials shall be immediately removed from the site and replaced at Contractor's expense. Cost of testing of materials not meeting specifications shall be paid by Contractor.

10. INSPECTIONS AND TESTS

A. Submit written requests for inspections to Owner's Representative or Landscape Architect at least 48 hours prior to anticipated inspection.

B. Inspection of completed installation will be made by Owner's Representative or Landscape Architect prior to backfilling of trenches and will be made during hydrostatic testing.

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DRAWING TITLE
IRRIGATION NOTES SHEET 1

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DRAWING NO. **L-504** REV. A

11. AS-BUILT DRAWINGS: Contractor shall furnish Record Drawings of the complete irrigation system in accordance with the General and Special Conditions. Procure from the Owner's Representative or Landscape Architect, full-sized reproducibles of Contract Drawings. Construction drawings shall be on the construction site at all times while the irrigation system is being installed, contractor shall keep a daily record of all work installed during each day. Actual location of valves and all irrigation and drainage piping shall be shown on the prints by dimensions from easily identified permanent features, such as buildings, curbs, fences, walks, or property lines. Drawings shall show approved substitutions, if any, of material including manufacturer's name and catalog number. The drawings shall be to scale and all indications shall be neat. All information noted on the print shall be transferred to the sepia by Contractor and all indications shall be recorded in a neat, orderly way. The record sepia shall be turned over to the Owner's Representative or Landscape Architect at or before the Final Acceptance of the project, for distribution to the Owner.

12. CLEAN UP: Keep all areas of work clean, neat and orderly at all times. Keep paved areas clean during installation. Clean up and remove all debris from the entire work area prior to Final Acceptance to satisfaction of Owner's representative or Landscape Architect.

13. FINAL ACCEPTANCE: Work under this Section will be accepted by Owner's Representative or Landscape Architect upon satisfactory completion of all work. Upon Final Acceptance, Owner will assume responsibility for maintenance of the work. Said assumption does not relieve Contractor of obligations under Warranty.

14. WARRANTY: In addition to manufacturer's guarantees or warranties, all work shall be warranted for one year from the date of Final Acceptance against defects in material, equipment, and workmanship by Contractor. Warranty shall also cover repair of damage to any part of the premises resulting from leaks or other defects in materials, equipment and workmanship to the satisfaction of the Owner.

MATERIALS:

15. MATERIALS, GENERAL: Materials throughout the system shall be new and in perfect condition.

16. BACKFLOW DEVICE: Backflow device as required by local authorities. Contractor to stake location for confirmation by Owner's representative and Landscape Architect prior to installation.

17. PIPING:
   A. Piping on pressure side of irrigation control valves (main) Class 200 PVC pipe.
   B. Piping on non-pressure side of irrigation control valves (laterals) Class 200 PVC, except 1/2" diameter pipe which is Class 315 PVC.

18. FITTINGS: Fittings for Solvent-Welded Pipe: Class 200, polyvinyl chloride, standard weight, as manufactured by Slone, Lasco or approved equal, to meet ASTM D-2466-73 and D-2467-73. Threaded PVC nipples - Schedule 80 PVC, for swing joints.

19. ISOLATION VALVES: Up to 3" in size: SCH 80 Ball Valves sized to mainline. Install valves in seperate valve boxes.

20. IRRIGATION CONTROLLER: As noted on plan and identified on detail sheet.

21. IRRIGATION CONTROL VALVES:
   A. Remote Control Valves: Rain Bird PEB Series Valve or approved equal locations and size shown on plan (See Detail Sheet).

22. CONTROL WIRE:
   A. Wire: Solid copper wire, U.L. approved for direct burial in ground. Minimum gauge: #14 UF. Common ground wire shall be white in color.
   B. Splicing Materials: 3M DBY/DBR splice kits

23. VALVE BOXES:
   A. To be injection-moulded of polyesters and fibrous inorganic temperature resistant components. Box shall provide a lid with locking capability.
   B. For Remote Control Valves they shall be rectangular, approximately 12"X18" outside diameter by 15" deep.
   C. For Gate Valves and Quick coupler Valves shall be round, approximately 10" outside diameter by 10" deep.
   D. One cubic foot of gravel per valve box.

24. QUICK COUPLING VALVES: Valve shall be Rain Bird 33-RC with Key or equal. Contractor to supply two valve keys fitted with 3/4" swivel hose ells.

25. SPRINKLER HEADS: Sprinkler heads and symbols are shown on plan see Detail Sheet for brand and catalog number.

WORK PROCEDURE:

26. LAYOUT:
   A. Layout work as accurately as possible to drawings. Drawings are diagrammatic to the extent that swing joints, offsets, and all fittings are not shown.
   B. Full and complete coverage is required. Contractor shall make any necessary minor adjustments to layout required to achieve full coverage of irrigated areas at no additional cost to Owner.
   C. Where connections to existing stubouts are required, make necessary adjustments in layout to connect should stubs not be located exactly as shown. Adjust layout as necessary to install around existing work.
   D. Where piping is shown to be under paved areas but running parallel and adjacent to planted area, the intent is to install piping in planted areas. Do not install directly over another line in the same trench.

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IRRIGATION NOTES
SHEET 2

65% DOCUMENTS
JUNE 25, 2010

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REV. A

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27. EXCAVATING AND TRENCHING:
   A. Perform all excavations as required for installation of work included under this Section, including shoring of earth banks, if necessary. Restore all surfaces, existing underground installations, etc., damaged or cut as a result of the excavations, to their original condition.
   B. Should utilities not shown on the plans be found during excavations, Contractor shall promptly notify Owner's Representative or Landscape Architect for instructions as to further action. Failure to do so will make Contractor liable for any and all damage thereto arising from his operations subsequent to discovery of such utilities.
   C. Dig trenches wide enough to allow a minimum of four (4") inches between parallel pipe lines. Trenches shall be of sufficient depth to provide minimum cover from finish grade as follows:
      1. Over PVC pipe on pressure side (mains) of irrigation control valve, control wires and quick coupling valves: 18 Inches.
      2. Over pipe on non-pressure side (laterals) of irrigation control valve: 12 inches.
      3. All PVC pipe under paving shall be bedded with minimum of four (4") inches of sand backfill on all sides and have twenty-four (24") inch cover.

28. CONDUITS AND SLEEVES: Coordinate conduit and sleeve installation with other trades as required. 29. PIPE LINE ASSEMBLY:
   A. Install pipe in accordance with manufacturer's latest printed instructions.
   B. Solvent weld PVC pipe and fittings using solvents and methods recommended by manufacturer, except where screw connections are required. Clean pipe and fittings of dirt and moisture before assembly. PVC pipe may be assembled on ground surface beside trench. Snake pipe from side to Make all connections between PVC pipe and metal valves or pipe with threaded fittings using PVC male adapters. side of trench bottom to allow for expansion and contraction.
   C. Use pipe joint compound on galvanized steel fittings: use Teflon tape on treaded PVC fittings.

30. IRRIGATION CONTROL VALVES: Install control valves in valve boxes where shown and group together where practical. Place no closer than twelve (12) inches to walk edges, buildings and walls. Valve boxes shall be flush with finished grade.
31. SPRINKLER HEADS: Install all irrigation equipment as per details. When conflicts occur between details and manufacturer's specification defer to manufacturer.

32. QUICK COUPLING VALVES: Quick coupling valves shall be installed on a swing joint assembly as shown on detail sheet.

33. AUTOMATIC CONTROLLER: A. Install per local code and manufacturer's latest printed instructions.
   B. Connect remote control valves to controller in sequence to correspond with station setting beginning with stations 1, 2, 3, etc.

34. CONTROL WIRING:
   A. Install control wires with sprinkler mains and laterals in common trenches wherever possible. Lay to the side of pipe line. Provide looped slack at valves and snake wires in trench to allow for contraction of wires. Tie wires in bundles at ten (20') foot intervals.
   B. Control wire splices at remote control valves to be crimped and sealed with specified splicing materials. Line splices will be allowed only on runs of more than 500 feet. Line splices to be Marconitype taped and sealed with Scotchkote sealer.
   C. Contractor shall run (2) two extra wires of a fugitive color to farthest valve from controller, in every direction.

35. CLOSING OF PIPE AND FLUSHING OF LINES:
   A. Cap or plug all openings as soon as lines have been installed to prevent entrance of materials that would obstruct the pipe. Leave in place until removal is necessary for completion of installation.
   B. Thoroughly flush out all water lines before installing heads, valves and other hydrants.
   C. Test as specified.
   D. Upon completion of testing, complete assembly and adjust sprinkler heads for proper distribution.

36. TESTING:
   A. Make hydrostatic tests with risers capped when welded PVC joints have cured at least 24 hours. Center load piping with backfill to prevent pipe from moving under pressure. All couplings and fittings shall be exposed. Apply continuous static water pressure of 100 psi as follows:
      1. All piping on the pressure side (main) of control valves shall be tested for four (2) hours.
      2. All piping on the non-pressure side (laterals) of control valves shall be tested for two (1) hours.
   B. Leaks resulting from tests shall be repaired and tests repeated until system passes tests.

37. BACKFILL AND COMPACTING:
   A. After system is operating and required tests and inspections have been made, backfill excavations and trenches with clean soil, free of debris.
   B. Backfill for all trenches, regardless of the type of pipe covered, shall be compacted to a minimum 95% density under pavements, 85% under planted areas.
   C. Compact trenches in areas to be planted by thoroughly flooding the backfill. Jetting process may be used in those areas.
   D. Dress off all areas to finish grades.

END OF IRRIGATION SPECIFICATIONS

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IRRIGATION NOTES SHEET 3

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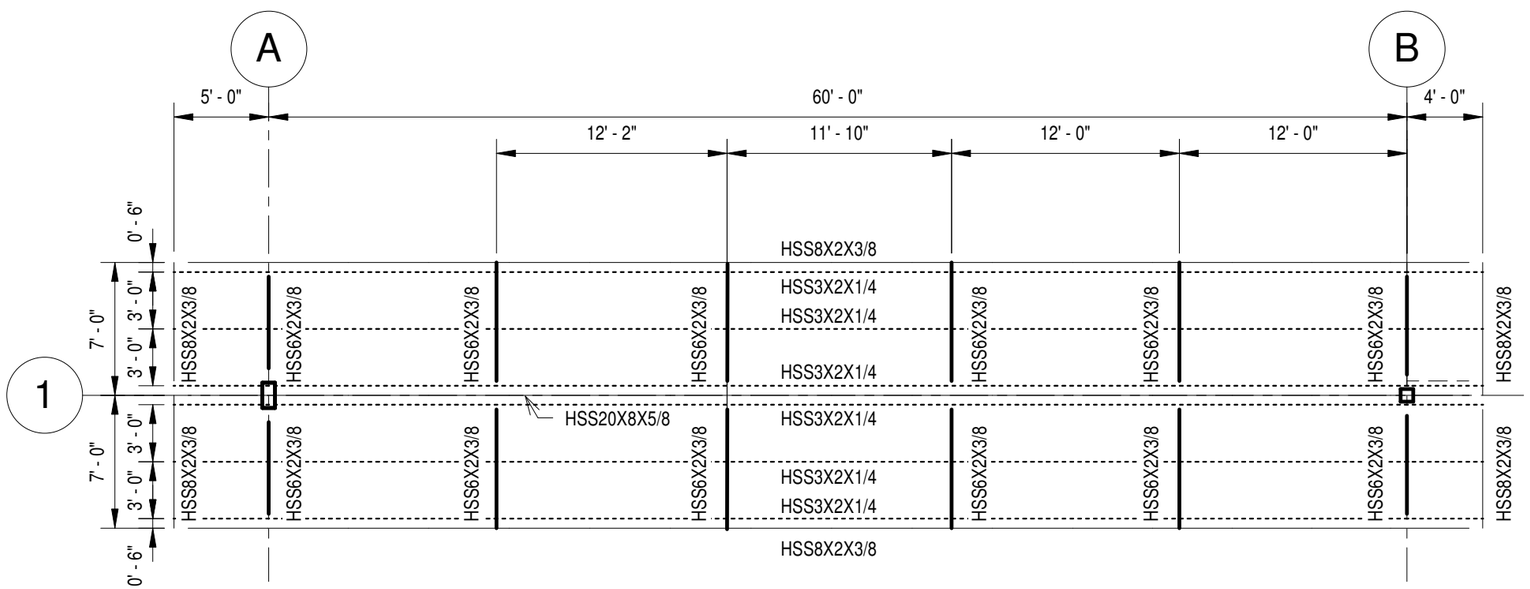
DRAWING NO. **L-506** REV. A

NOTES:

1. SEE SHEET S-000 FOR GENERAL NOTES.

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



CANOPY FRAMING PLAN

SCALE: 1/8" = 1'-0"

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DRAWING TITLE
IN-LINE STATION FOUNDATION & CANOPY FRAMING PLAN

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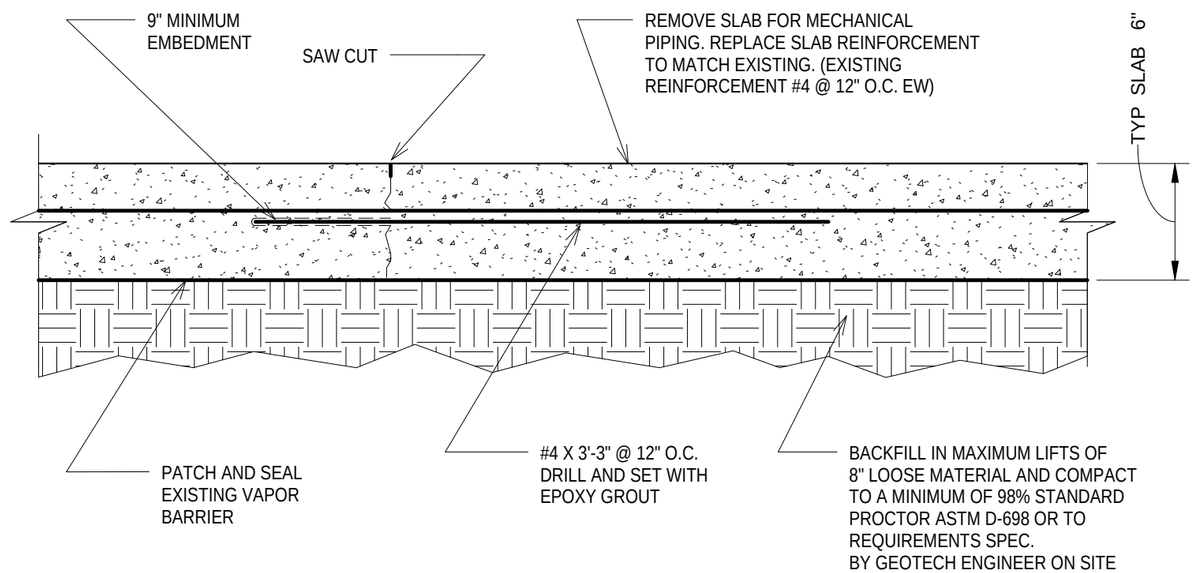
JUNE 25, 2010

DRAWING NO. **S-105**

REV. A

NOTES

1. SEE S-000 FOR GENERAL NOTES



DETAIL 1 - CONCRETE SLAB REPLACEMENT

SCALE: 12" = 1'-0"

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DRAWING TITLE: CONCRETE SLAB DETAIL

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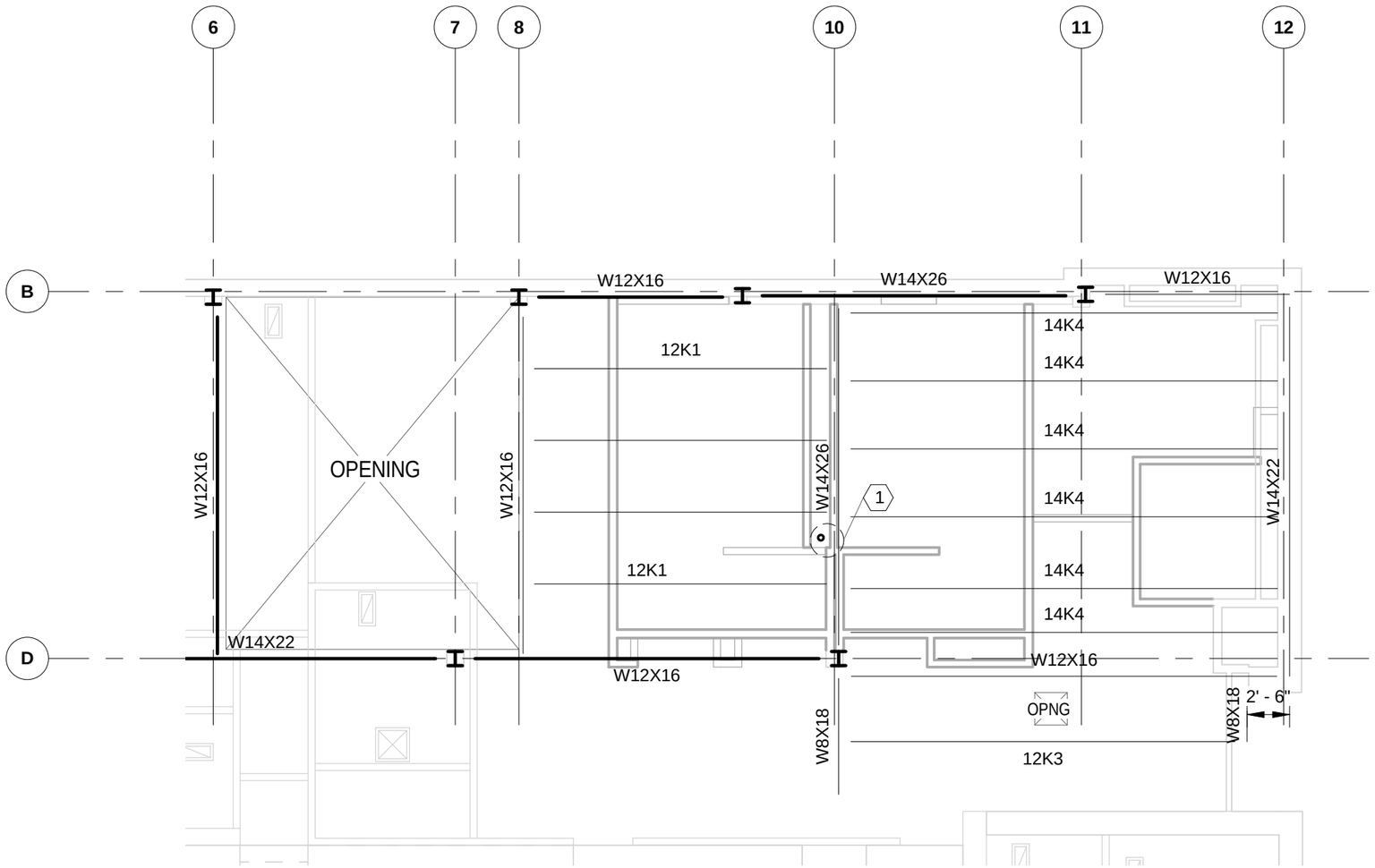
DRAWING NO. S-104 | REV. A



STRUCTURAL PARTIAL PLAN ROOF

SCALE: 1/8" = 1'-0"

NOTES

1. SEE S-000 FOR GENERAL NOTES.
2. ALL STEEL SHOWN IS EXISTING.

KEYNOTES

1. CORE BORE HOLE IN ROOF FOR SANITARY VENT STACK FROM THE SECOND FLOOR. DRILL HOLES A MINIMUM OF 1/2" LARGER THAN PIPE DIAMETER. OPENING SHALL BE FITTED WITH A PROPER DIAMETER NEOPRENE BOOT AND SEALED WATER TIGHT TO THE EXISTING ROOF MEMBRANE.

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DRAWING TITLE
ROOF DEMOLITION AND CONSTRUCTION

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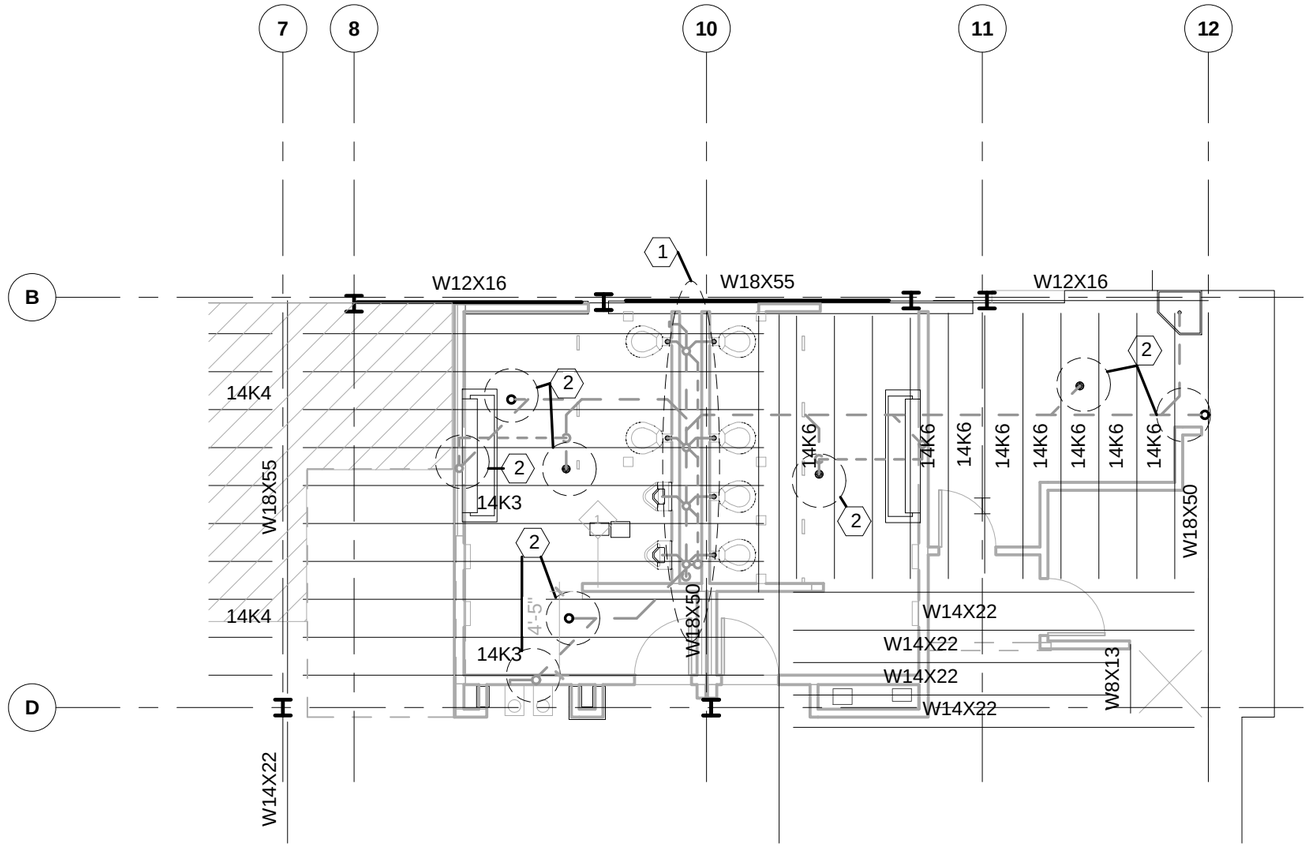

STRUCTURAL PARTIAL PLAN 2ND FLOOR

SCALE: 1/8" = 1'-0"

NOTES

1. SEE S-000 FOR GENERAL NOTES.
2. ALL STEEL SHOWN IS EXISTING.

KEYNOTES

1. CORE BORE HOLES IN CONCRETE SLAB FOR (5) 4" SANITARY LINES SUPPLYING THE SECOND FLOOR. DRILL HOLES A MINIMUM OF 1/2" LARGER THAN PIPE DIAMETER.

2. CORE BORE HOLES IN CONCRETE SLAB FOR (7) 2" FLOOR DRAINS AND CLEANOUTS PROVIDED FOR DRAINAGE FROMTHE SECOND FLOOR. DRILL HOLES A MINIMUM OF 1/2" LARGER THAN PIPE DIAMETER.

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WESTSIDE MULTIMODAL TRANSIT CENTER

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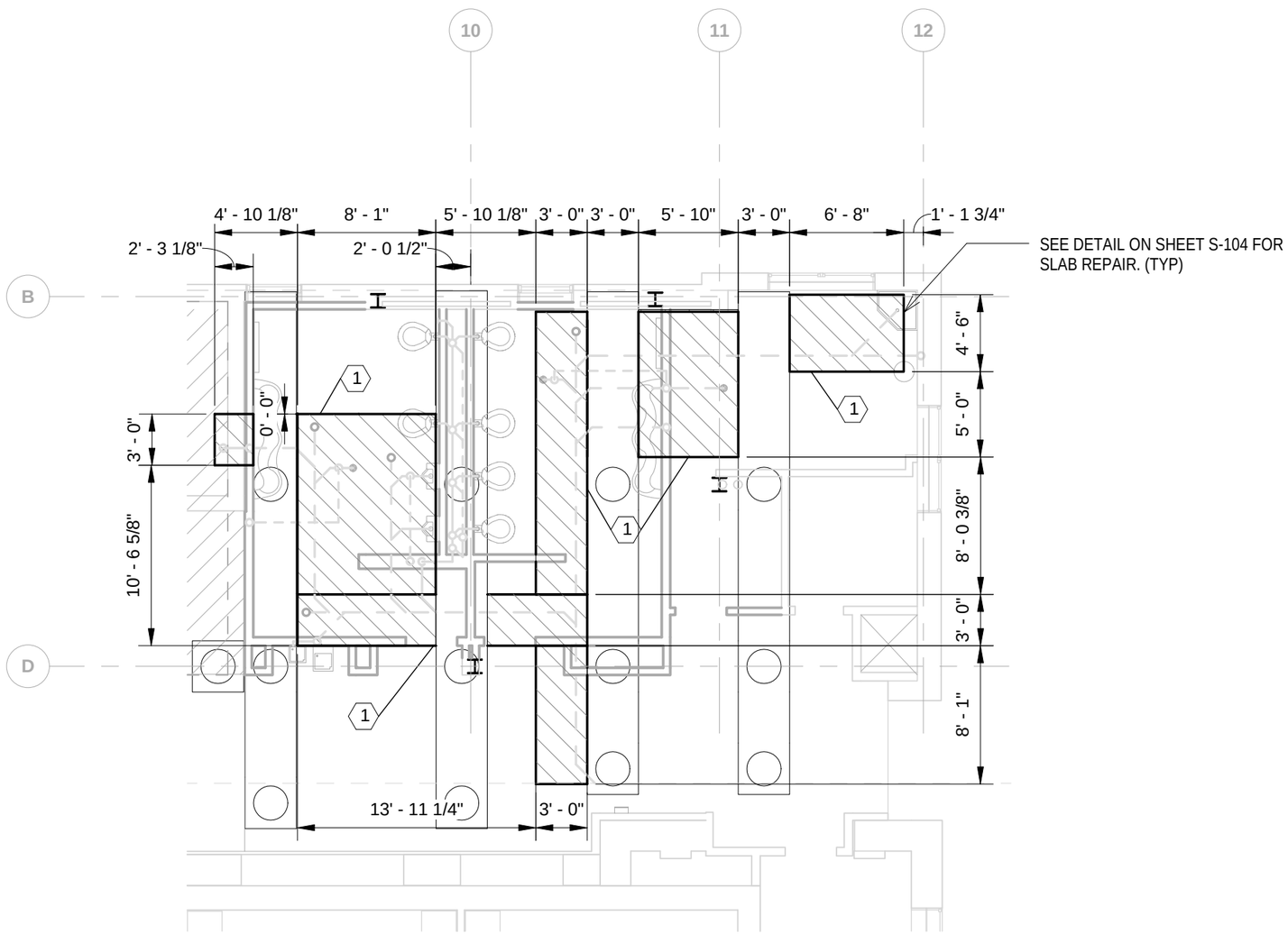
DRAWING TITLE
2nd FLOOR DEMOLITION AND CONSTRUCTION PLAN

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **S-102** REV. A



STRUCTURAL PARTIAL PLAN 1ST FLOOR

SCALE: 1/8" = 1'-0"

NOTES

1. SEE S-000 FOR GENERAL NOTES.

KEYNOTES

1. SAW CUT EXISTING CONCRETE SLAB AS INDICATED BY THE HATCHED AREA AND EXCAVATE SOIL UNDER PILE CAPS WHEN ROUTING PIPING. CONTRACTOR IS TO RETURN ALL ITEMS TO THEIR EXISTING CONDITION AND FOLLOW DETAIL 1 ON SHEET S-104.

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DRAWING TITLE
1ST FLOOR DEMOLITION AND CONSTRUCTION PLAN

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. S-101 | REV. A

STRUCTURAL GENERAL NOTES

GENERAL :

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS BEFORE CONSTRUCTION. ANY ERRORS OR OMISSIONS DISCOVERED IN THE DRAWINGS OR SPECIFICATIONS, OR ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE IMMEDIATLY REPORTED TO THE ENGINEER.

2. THE DRAWINGS, GENERAL NOTES AND SPECIFICATIONS ARE COMPLEMENTARY. WHAT IS CALLED FOR BY ONE IS AS BINDING, AS IF CALLED FOR BY THE OTHERS. THE INTENTION OF THE DOCUMENT IS TO PROVIDE FOR ALL, LABOR, MATERIALS, EQUIPMENT, SUPPLIES, SERVICES, TRANSPORTATION, SUPERVISION, ETC.. AS REQUIRED TO PRODUCE A COMPLETE FINISHED PROJECT.

3. CONSTRUCTION METHODS, PROCEDURES AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL TAKE THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY AT ALL STAGES. IT IS THE CONTRACTOR'S RESPOSSIBILITY TO PROVIDE NECESSARY DUST WALLS AND OTHER PROTECTION FOR EQUIPMENT AND PERSONNEL DURING CONSTRUCTION.

4. CONTRACTOR SHALL COORDINATE WITH , MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS TO VERIFY THE LOCATIONS AND SIZES OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, FINISHES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS. IF CONTRACTOR PROPOSES A DEVIATION FROM THE CONSTRUCTION DOCUMENTS, DETAILS OF DOCUMENTATION SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW.

5. USE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT ANCHORAGE AND DETAILS.

6. ALL STRUCTURAL MEMBERS, AS SHOWN, HAVE BEEN DESIGNED TO CARRY IN PLACE DESIGN LOADS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY ADDITIONAL LOADS AND FORCES IMPOSED DURING MANUFACTURING, TRUCKING, ERECTING AND HANDLING.

7. ALL VENDOR GENERATED INFORMATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING ANY PERTINENT WORK.

8. IF CONTRACTOR PROPOSES A DEVIATION FROM THE CONSTRUCTION DOCUMENTS, DETAILS OF DOCUMENTATION SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW.

EXCAVATION :

1. COMPACT FILL MATERIAL TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557 OR AS DIRECTED IN THE SPECIFICATIONS.

2. BACKFILL ADJACENT TO FOOTING, PADS, GRADE BEAMS, WALLS ETC. SHALL BE COMPACTED TO AT LEAST 95% OF STANDARD DRY DENSITY IN ACCORDANCE WITH ASTM D698.

CONCRETE :

C1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION AND ADDENDA OF THE FOLLOWING DOCUMENTS:

A. ACI-318-05, BUILDING CODE REQUIREMENTS OF STRUCTURAL CONCRETE.

B. ACI-315-04, ACI DETAILING MANUAL.

C. ACI-301-05, SPECIFICATIONS FOR STRUCTURAL CONCRETE.

D. ACI-116R-00, CEMENT AND CONCRETE TERMINOLOGY.

C2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

C3. COLD AND HOT WEATHER CONCRETING SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 5.12 AND 5.13 OF ACI 318-05, AND THE SPECIFIC REQUIREMENTS INDICATED IN PROJECT SPECIFICATIONS.

C4. LOCATION OF ALL CONSTRUCTION JOINTS OR OTHER TYPES OF JOINTS, NOT SPECIFIED ON DESIGN DRAWINGS, MUST BE PROVIDED BY CONTRACTOR FOR APPROVAL BY ENGINEER, BEFORE CONCRETE PLACEMENT.

C5. THE MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE PROVIDED (UNO) IN ACCORDANCE WITH 318-05.

A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"

B) FOR CONCRETE EXPOSED TO EARTH OR WEATHER:
NO. 6 THROUGH NO. 18 BARS ..... 2"
NO. 5 BAR, W31 OR D31 WIRE
AND SMALLER ..... 11/2"

C) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND; SLAB & WALLS:
NO. 14 AND NO. 18 BARS ..... 11/2"
NO. 11 BAR AND SMALLER ..... 3/4"

C6. ALL REINFORCING STEEL, DOWELS, OTHER INSERTS, AND EMBEDS SHALL BE SECURED IN POSTION, INSPECTED AND APPROVED PRIOR TO PLACING CONCRETE.

C7. ANCHOR BOLTS SHALL BE ASTM F 1554 GRADE 36 UNLESS OTHERWISE NOTED ON THE DRAWINGS.

C8. WHERE BAR AND ANCHOR BOLT LOCATIONS COINCIDE, BAR SHALL BE PLACED TO CLEAR ANCHOR BOLT BEFORE PLACING CONCRETE.

C9. ANCHOR BOLTS SHALL BE PROVIDED AS REQUIRED FOR ANCHORAGE OF ALL EQUIPMENT. ANCHOR BOLT DETAILS SHALL BE VERIFIED WITH THE MANUFACTURER'S LATEST DRAWINGS AT THE TIME OF ANCHOR BOLT PLACEMENT. ANCHORAGE FOR ALL SUBCONTRACTOR -FURNISHED EQUIPMENT AND SUBCONTRACTOR-DESIGNED SUPPORTS SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE SUBCONTRACTOR. THE SUBCONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE ANCHOR BOLT PLACEMENT TOLERANCES ARE COMPATIBLE WITH EQUIPMENT INSTALLATION REQUIREMENTS. WHEN SUBCONTRACTOR-FURNISHED EQUIPMENT IS DELIVERED TO THE SITE PRIOR TO ANCHOR BOLT PLACEMENT, SUBCONTRACTOR SHALL VERIFY THE AS-MANUFACTURED EQUIPMENT DIMENSIONS AND SHALL ADJUST ANCHOR BOLT LOCATIONS TO SUIT.

C10. ALL WATER STOPS SHALL BE HYDROTITE CJ-0725-3K AS MANUFACTURED BY GREEN STREAK OR APPROVED EQUAL.

C11. GROUT: NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENT, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS, CONFORMING TO ASTM C109 AND ASTM C827. ACCEPTABLE PRODUCTS SHALL BE MASTER FLOW 713, BY MASTER BUILDERS; SEAL TIGHT 588, BY W.R.MEADOWS; SIKAGROUT 212; BY SIKA CORP. OR APPROVED EQUAL.

C12. ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4" X 3/4".

STRUCTURAL STEEL :

S1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION", THIRTEENTH EDITION.

S2. ALL STEEL W-SHAPES SHALL BE ASTM A992, STEEL TUBING SHALL BE A500 GRADE B FY46ksi, STEEL PIPE SHALL BE A500 GRADE B FY42ksi AND ALL OTHER STRUCTURAL SHAPES SHALL BE A36. (UNO)

S3. ALL STEEL SHALL BE PAINTED PER SPECIFICATION SECTION 05 12 00.

S4. WELDS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.1-2000, USING E70XX WELD FILLER MATERIAL.

S5. FABRICATION AND ERECTION SHALL CONFORM TO THE FOLLOWING:

A. ANSI/AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, MARCH 9, 2005

B. ANSI/AISC 303-05 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, MARCH 18, 2005

S6. FIELD WELDING SHALL BE ALLOWED ONLY WHERE NOTED ON THE DESIGN DRAWINGS.

S7. STANDARD FRAMED CONNECTIONS SHALL BE USED UNLESS INDICATED OTHERWISE. THESE CONNECTIONS SHALL HAVE THE MAXIMUM NUMBER OF BOLTS (OR EQUIVALENT WELDS) AS SHOWN IN THE APPROPRIATE TABLE, PART 4 OF AISC MANUAL OF STEEL CONSTRUCTION. ALL CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. SEALED CONNECTION DESIGNS SHALL BE SUBMITTED FOR APPROVAL. CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 60% OF BEAM TOTAL CAPACITY.

S8. GRIND ALL DEMOLISHED MEMBERS AND THEIR FORMER CONNECTIONS SMOOTH. TOUCH UP ALL AREAS WITH FABRICATOR'S STANDARD PRIMER.

S9. REINFORCING STEEL SHALL CONFORM TO A615 AND SHALL BE GRADE 60.

S10. UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE DEVELOPMENT LENGTH (Ld) IS 38db OR NOT LESS THAN 12" SPLICE. LENGTH (Ld) SHALL BE CLASS B AND EQUAL TO 1.3Ld.

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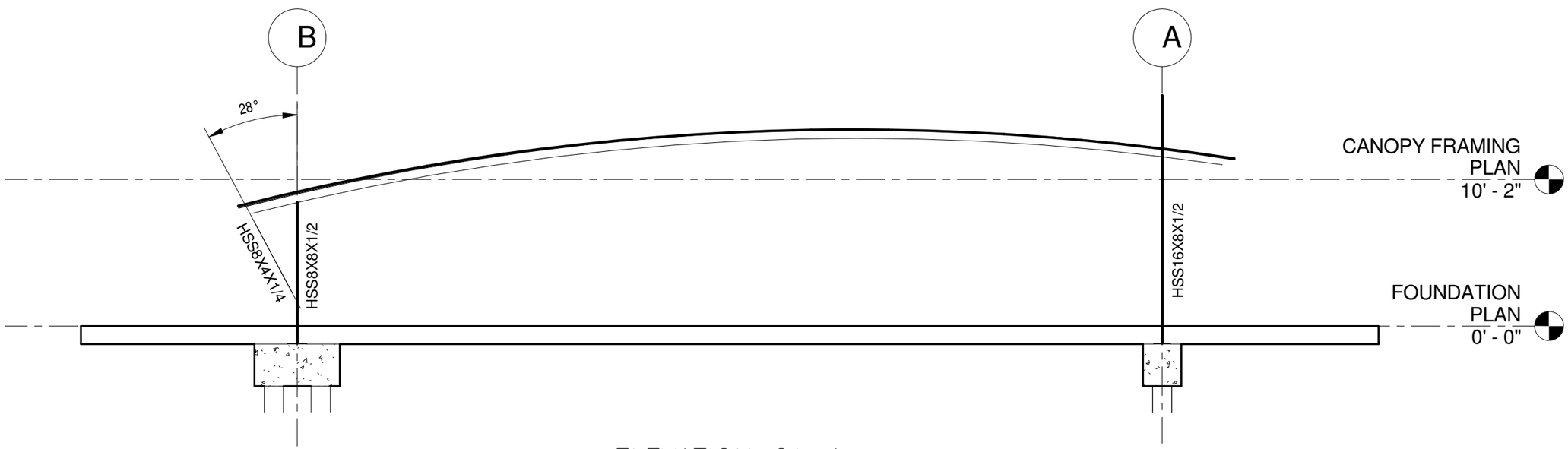
DRAWING TITLE: GENERAL NOTES

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. S-000 | REV. A

NOTES:

1. SEE SHEET S-000 FOR GENERAL NOTES.



ELEVATION CL 1

SCALE: 1/8" = 1'-0"

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DRAWING TITLE

IN-LINE STATION ELEVATIONS

65% DOCUMENTS

JUNE 25, 2010

DRAWING NO. **S-106**

REV. A

OCCUPANCY AND EGRESS PLAN LEGEND

- ASSEMBLY WITHOUT FIXED SEATING
- BUSINESS
- NOT INCLUDED IN OCCUPANCY CALCULATIONS
- PATH OF TRAVEL
- # / # — OCCUPANT LOAD / EXIT CAPACITY
- #' — DISTANCE TO EXIT IN FEET
- * — ASSUME EXISTING STAIR RATINGS TO BE 2HRS

Level 1

Exit ID	Exit Capacity- Inches (Persons)
Northeast Exit	33/165
East Exit	68/340
South Exit	68/340
Southwest Exit	33/165
Northwest Exit	68/340

Level 2

Exit ID	Entrance Door Clear Width/Capacity (Inches/Persons)	Stairway Clear Width/Capacity (Inches/Persons)	Discharge Door Clear Width/Capacity (Inches/Persons)	Governing Exit Capacity (Persons)
Stair 1	33/165	30.5/203	33/165	165
Stair 2	33/165	38/253	33/165	165

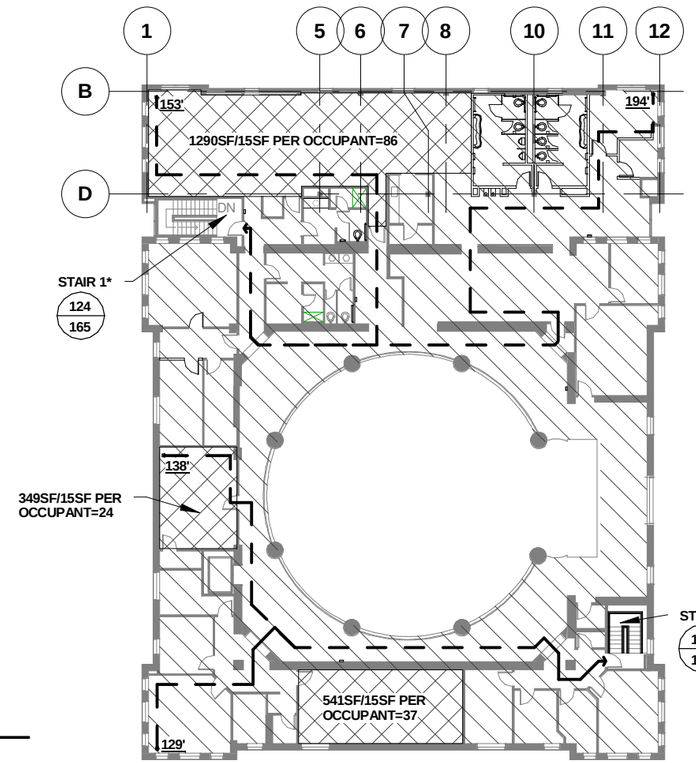
4 EGRESS REQUIREMENTS TABLE

NTS

Use	Density (per occupant)	Square Footage	Occupant Load	Totals	
Level 1					
Business	100 gsf	7,636	76		
				Total Business Occupants	**76**
Assembly (no fixed seating)	15 nsf	5,040	336		
				Total Assembly Occupants (15 nsf)	**336**
				Total Occupants Level 1	**412**
Level 2					
Business	100 gsf	8,746	97		
				Total Business Occupants	**97**
Assembly (No fixed seating)	15 nsf	2,280	152		
				Total Assembly Occupants (15 nsf)	**152**
				Total Occupants Level 2	**249**
				Total Occupants for Building	**661**
				Total Occupant Capacity for Building	**1350**

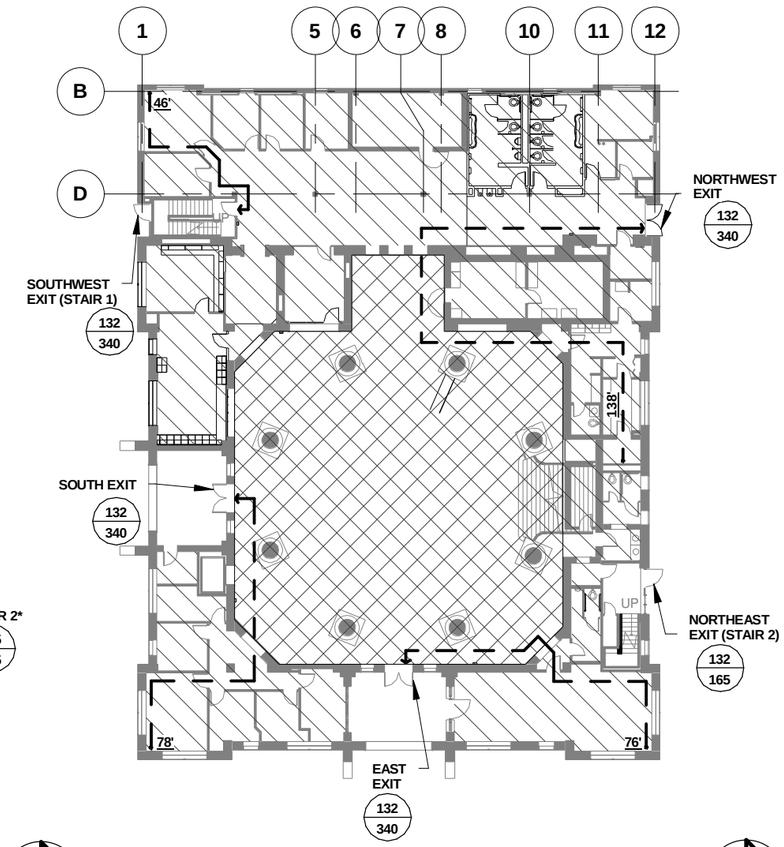
3 OCCUPANT LOAD TABLE

NTS



2 2ND FLOOR OCCUPANCY AND EGRESS PLAN

1/32" = 1'-0"



1 FIRST FLOOR OCCUPANCY AND EGRESS PLAN

1/32" = 1'-0"

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TEXAS ARCHITECT
13676

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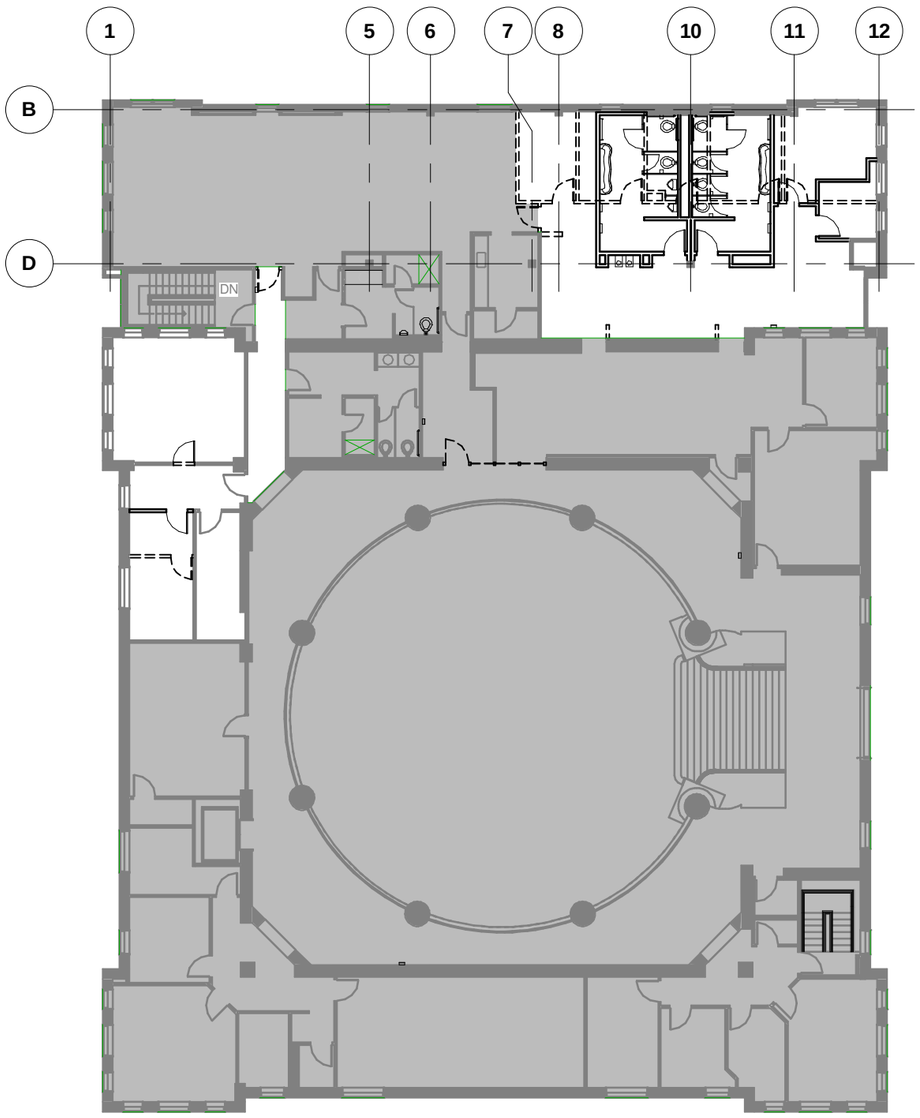
DRAWING TITLE: 1ST AND 2ND FLOOR EGRESS & OCCUPANCY PLANS

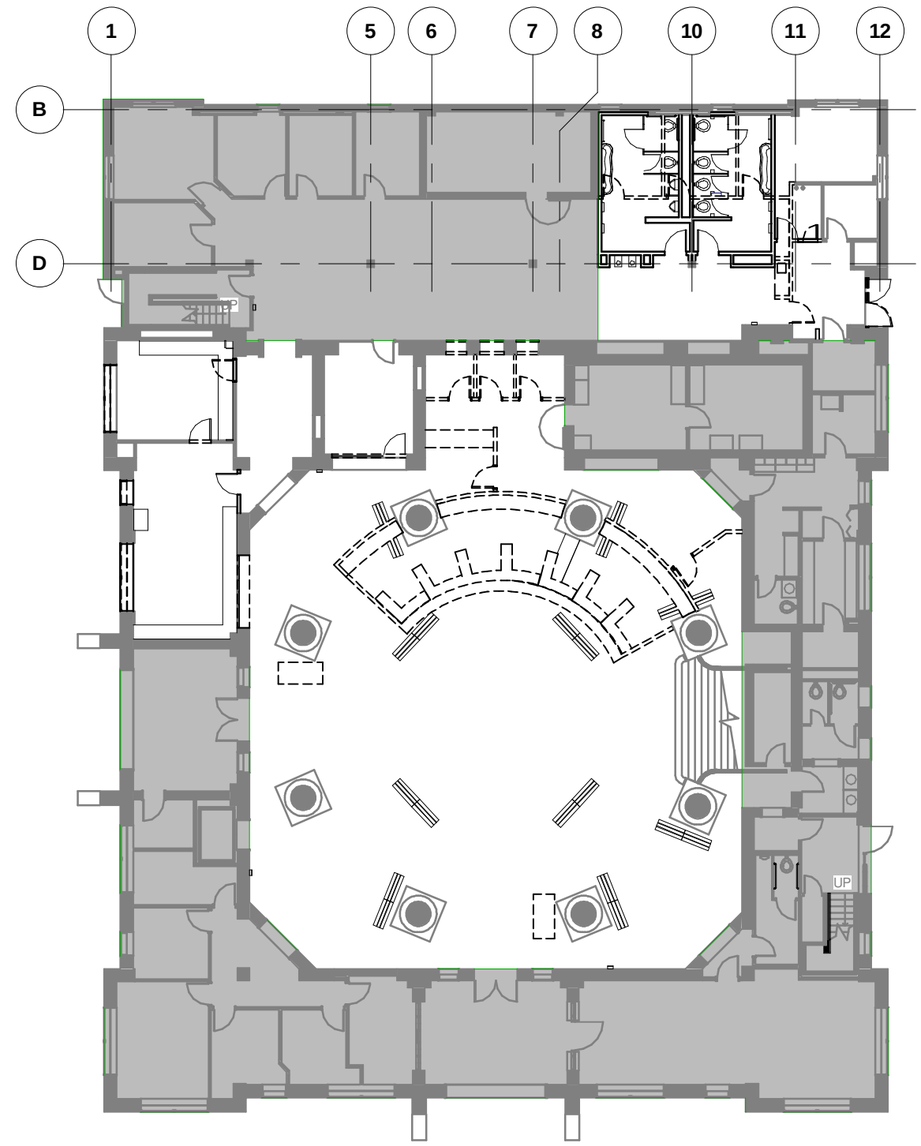
65% DOCUMENTS — JUNE 25, 2010

DRAWING NO. A-012 — REV. A



2 2ND FLOOR EXTENT OF WORK PLAN

3/64" = 1'-0"



1 FIRST FLOOR PLAN

3/64" = 1'-0"

NO WORK THIS AREA

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DRAWING TITLE
EXTENT OF INTERIOR WORK PLAN

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DRAWING NO. **A-013** REV. A

DEMO KEYNOTES

004 LOCATION OF FUTURE SURVEY AREA
005 DEMO DRIVE THROUGH STRUCTURE RE: ELEC, CIVIL FOR UTILITY LOCATION CAPS
006 DEMO PNEUMATIC TUBE SUPPORT
007 DEMO TUBE SUPPORT AT EXISTING EXTERIOR WALL TO MINIMIZE DISRUPTION TO WALL
008 BUILDING UTILITIES TO REMAIN RE: MEP.
009 EXISTING BRICK WALL TO REMAIN

1 **DEMO ARCHITECTURAL SITE PLAN**
NTS

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DRAWING TITLE
DEMO ARCHITECTURAL SITE PLAN
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JUNE 25, 2010
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REV. A

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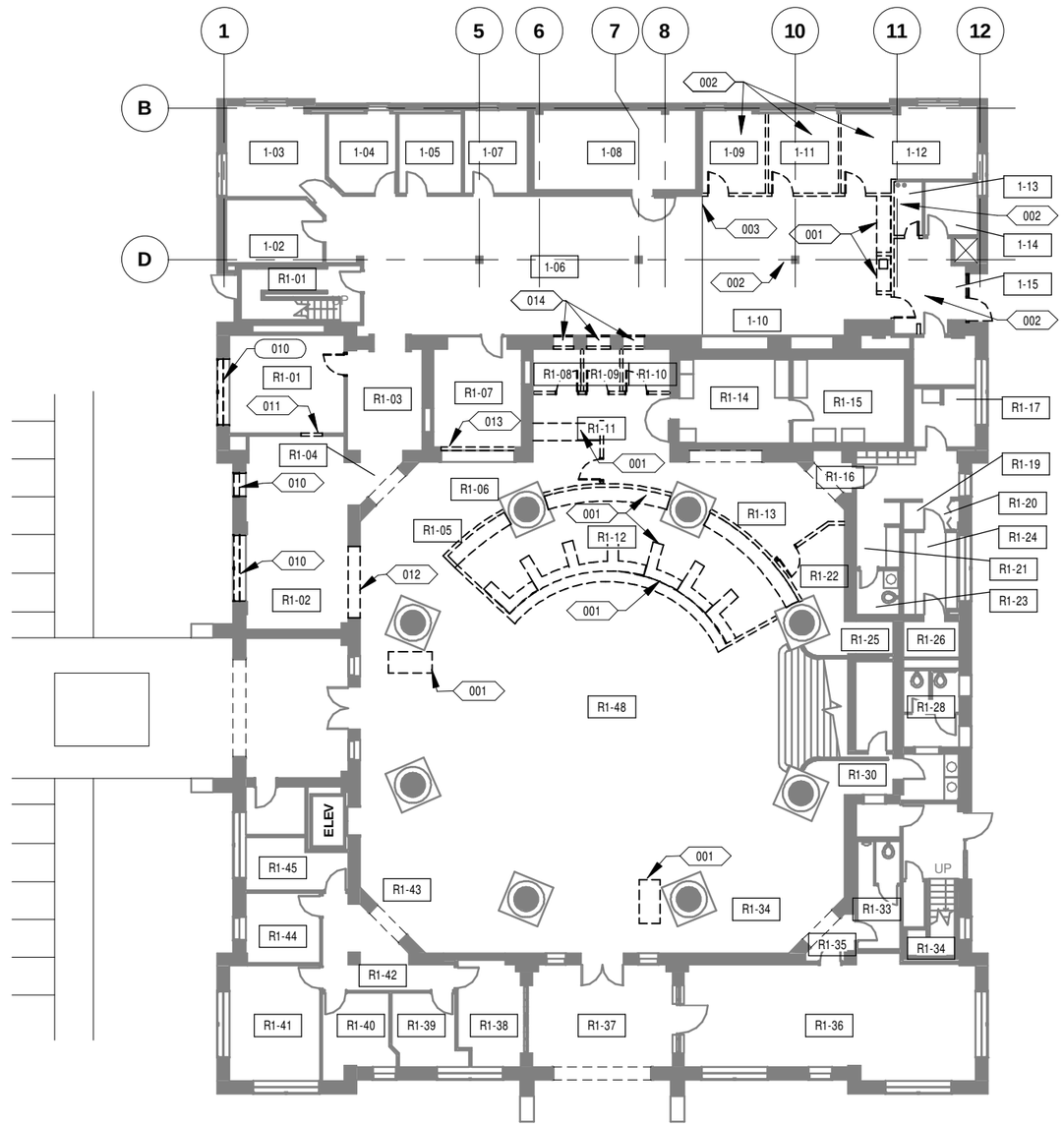
GENERAL NOTES

1. NO WORK TO OCCUR IN FUTURE LEASE SPACES.
2. PROTECT EXISTING FINISHES DURING DEMOLITION AND CONSTRUCTION.



DEMO KEYNOTES

001 REMOVE EXISTING MILLWORK AND ASSOCIATED ITEMS
002 REMOVE EXISTING FLOORING
003 EXTENT OF EXISTING FLOORING
010 DEMO EXISTING WINDOW AND ASSOCIATED ITEMS
011 DEMO OPENING FOR NEW DOOR
012 DEMO OPENING FOR NEW TRANSACTION WINDOW
013 DEMO OPENING FOR NEW STOREFRONT SYSTEM
014 DEMO WALLS TO EXPOSE HISTORICAL OPENINGS

1 **FIRST FLOOR DEMOLITION PLAN**
3/64" = 1'-0"

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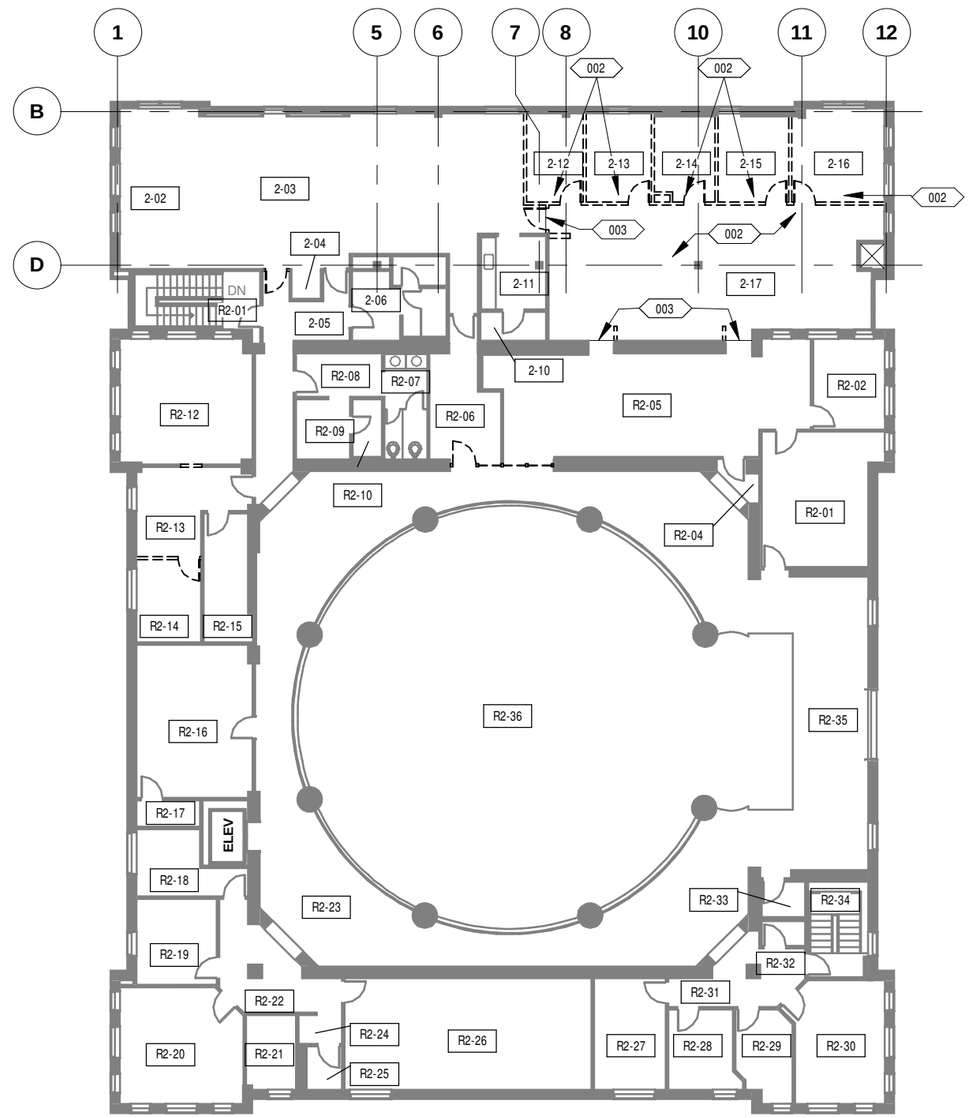
DRAWING TITLE
1ST FLOOR DEMOLITION PLAN

65% DOCUMENTS
JUNE 25, 2010

DRAWING NO. AD-201
REV. A

GENERAL NOTES

1. NO WORK TO OCCUR IN FUTURE LEASE SPACES.
2. PROTECT EXISTING FINISHES DURING DEMOLITION AND CONSTRUCTION.



DEMO KEYNOTES

002 REMOVE EXISTING FLOORING
003 EXTENT OF EXISTING FLOORING

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1 **2ND FLOOR DEMOLITION PLAN**

3/64" = 1'-0"

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2ND FLOOR DEMOLITION PLAN

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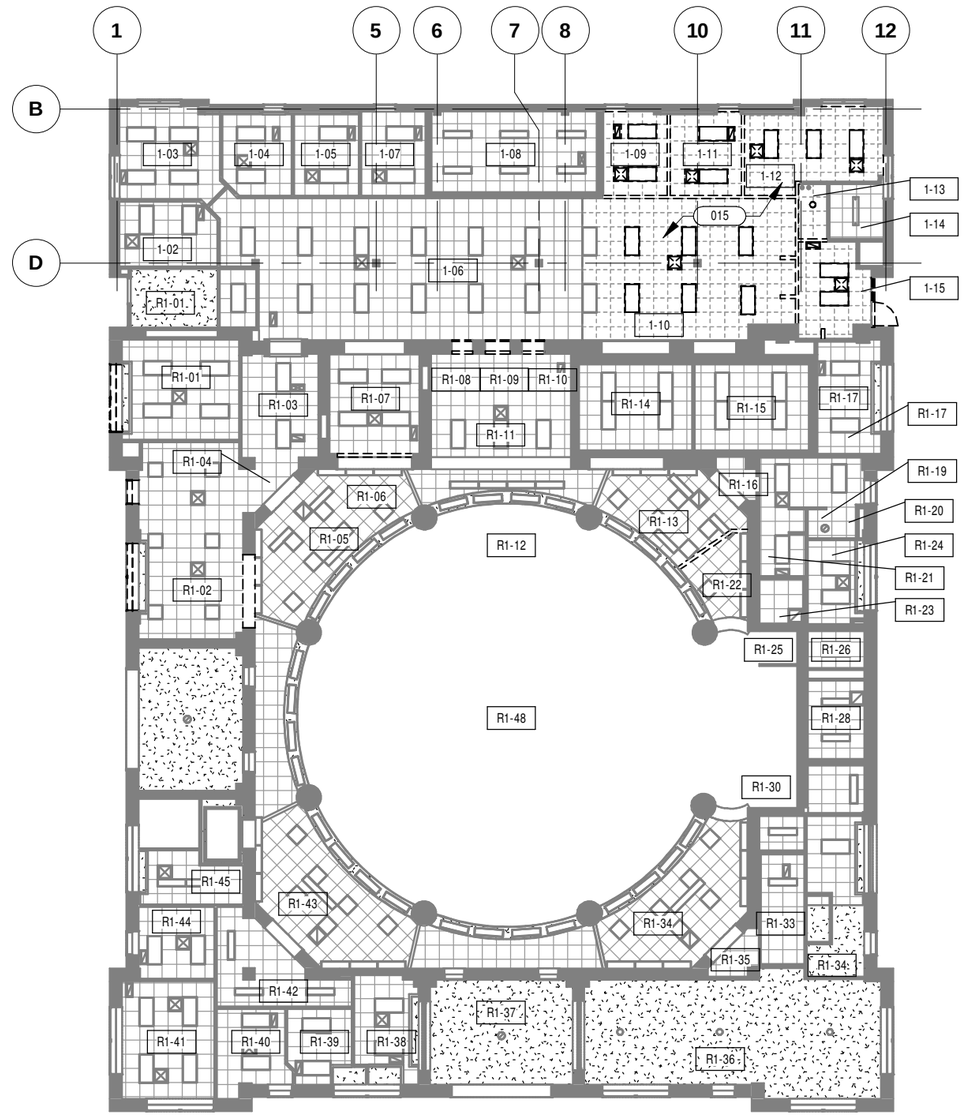

1 **1ST FLOOR DEMO REFLECTED CEILING PLAN**

3/64" = 1'-0"

GENERAL NOTES

1. PROTECT EXISTING LIGHTS, HVAC DEVICES, AND OTHER CEILING ELEMENTS TO REMAIN.

DEMO KEYNOTES

015 DEMO LIGHTS, HVAC DEVICES, ETC. RE: MEP

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	65% Documents	06-25-10			

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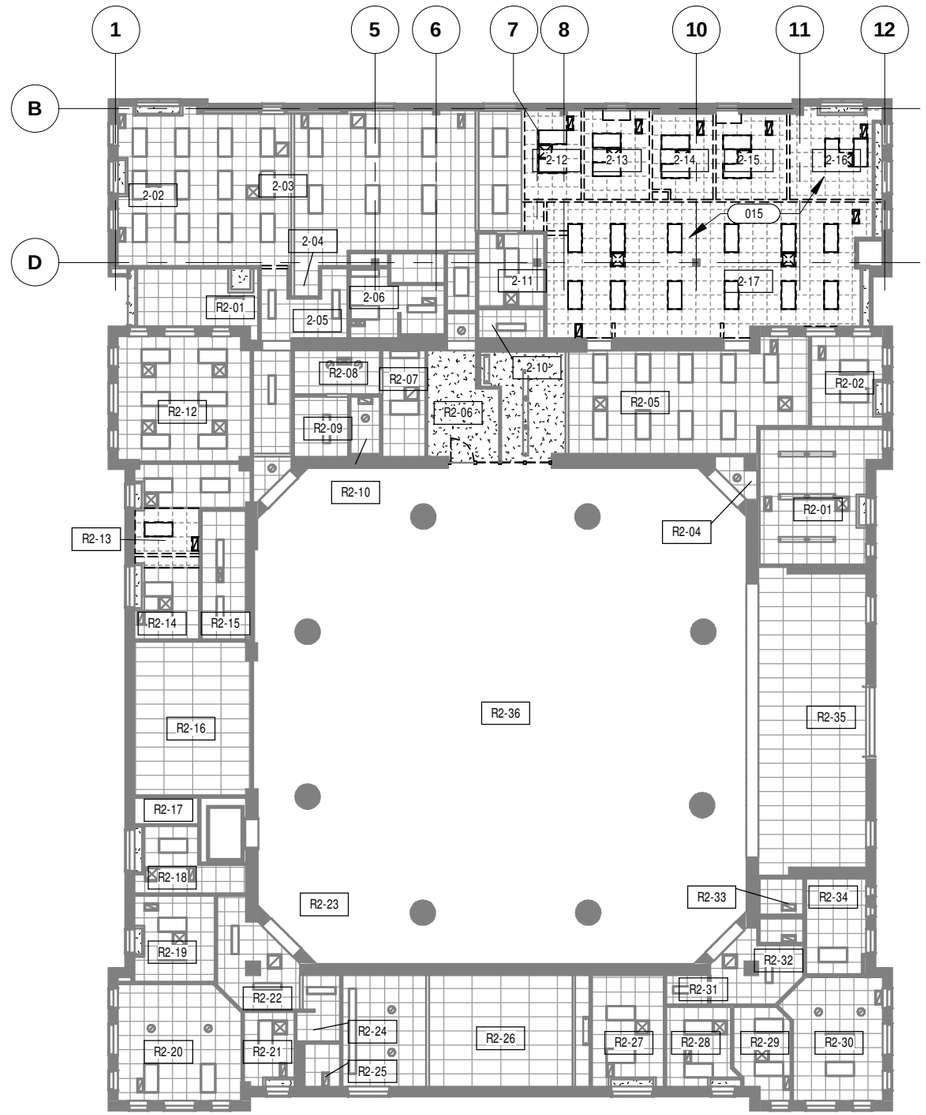
PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
1ST FLOOR DEMO REFLECTED CEILING PLAN

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **AD-211** REV. A



1 2ND FLOOR DEMO REFLECTED CEILING PLAN

3/64" = 1'-0"

GENERAL NOTES

1. PROTECT EXISTING LIGHTS, HVAC DEVICES, AND OTHER CEILING ELEMENTS TO REMAIN.

DEMO KEYNOTES

015 DEMO LIGHTS, HVAC DEVICES, ETC. RE: MEP

SEAL

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HAL E. LYNCH
TEXAS ARCHITECT
13676

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VIA primo
WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
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DRAWING TITLE
2ND FLOOR DEMO REFLECTED CEILING PLAN

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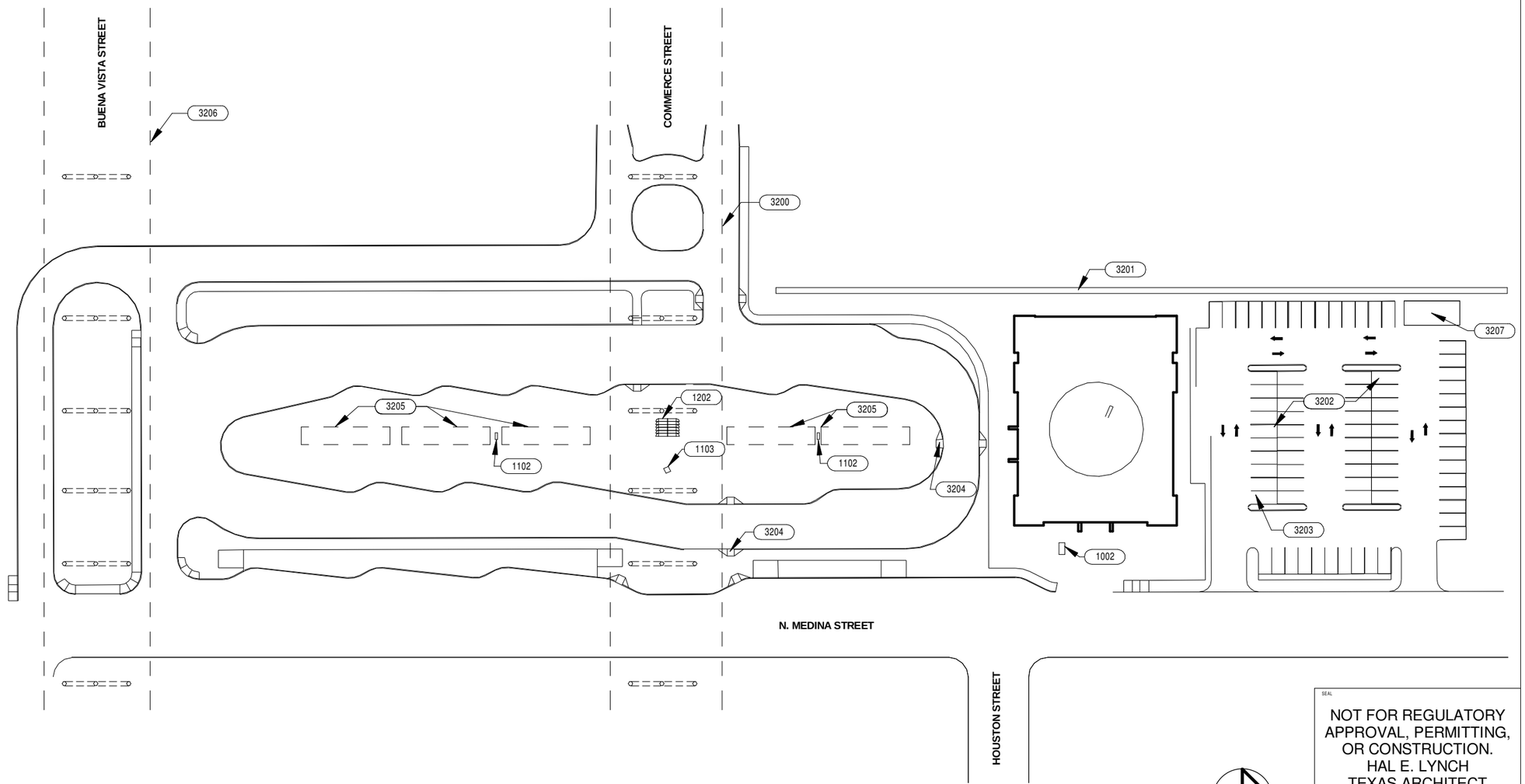
DRAWING NO. AD-212 | REV. A

SHEET KEYNOTES

1002 PILASTER SIGN
1102 ARRIVAL/DEPARTURE SIGN, RE: ELEC.
1103 FUTURE FARE VENDING MACHINE, RE: ELEC/DATA
1202 BICYCLE LOCKERS
3200 LINE OF COMMERCE STREET BRIDGE OVERHEAD
3201 EXISTING BRICK WALL- CLEAN/POWERWASH
3202 EMPLOYEE PARKING AREA
3203 LOCATION OF ACCESSIBLE PARKING
3204 ACCESSIBLE RAMP, TYP. RE: CIVIL
3205 PLATFORM CANOPY. RE: CIVIL
3206 LINE OF BUENA VISTA STREET BRIDGE
3207 CHILLER, RE: MEP



1 **ARCHITECTURAL SITE PLAN**
1" = 80'-0"

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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DRAWING TITLE
ARCHITECTURAL SITE PLAN
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JUNE 25, 2010
DRAWING NO. **A-101**
REV. A

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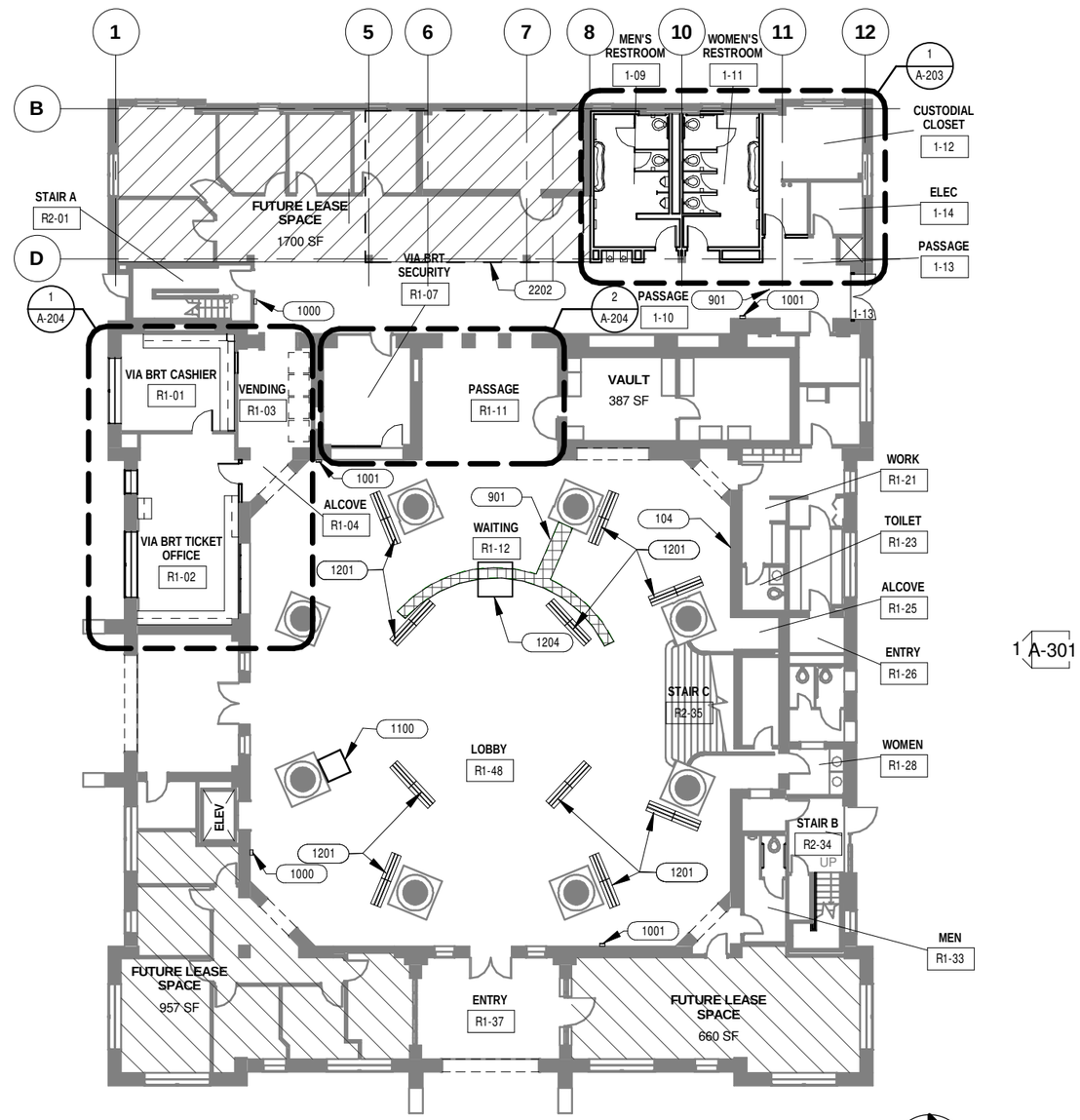
GENERAL NOTES

1. NO WORK TO OCCUR IN FUTURE LEASE SPACES.
2. PROTECT EXISTING FINISHES DURING CONSTRUCTION.
3. FUTURE LEASE SPACE SQUARE FOOTAGES ARE APPROXIMATE. VALUES SHOWN MAY NOT AGREE WITH LEASE AGREEMENT SQUARE FOOTAGE.

SHEET KEYNOTES

104	INFILL WALL TO MATCH EXISTING
901	PATCH FLOORING TO MATCH EXISTING
1000	FIRE EXTINGUISHER CABINET. MOUNT TOP OF CABINET AT 48" AFF
1001	EXISTING FIRE EXTINGUISHER CABINET
1100	FARE VENDING MACHINE, RE: ELEC/DATA, N.I.C.
1201	BENCH SEATING- CFCI, RE:SPECS
1204	INFORMATION KIOSK, N.I.C.
2202	LINE OF FUTURE LOCATION FOR SHOWER FACILITY



1 **FIRST FLOOR PLAN**

3/64" = 1'-0"

SEAL

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HAL E. LYNCH
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VIA CONTRACT NO.

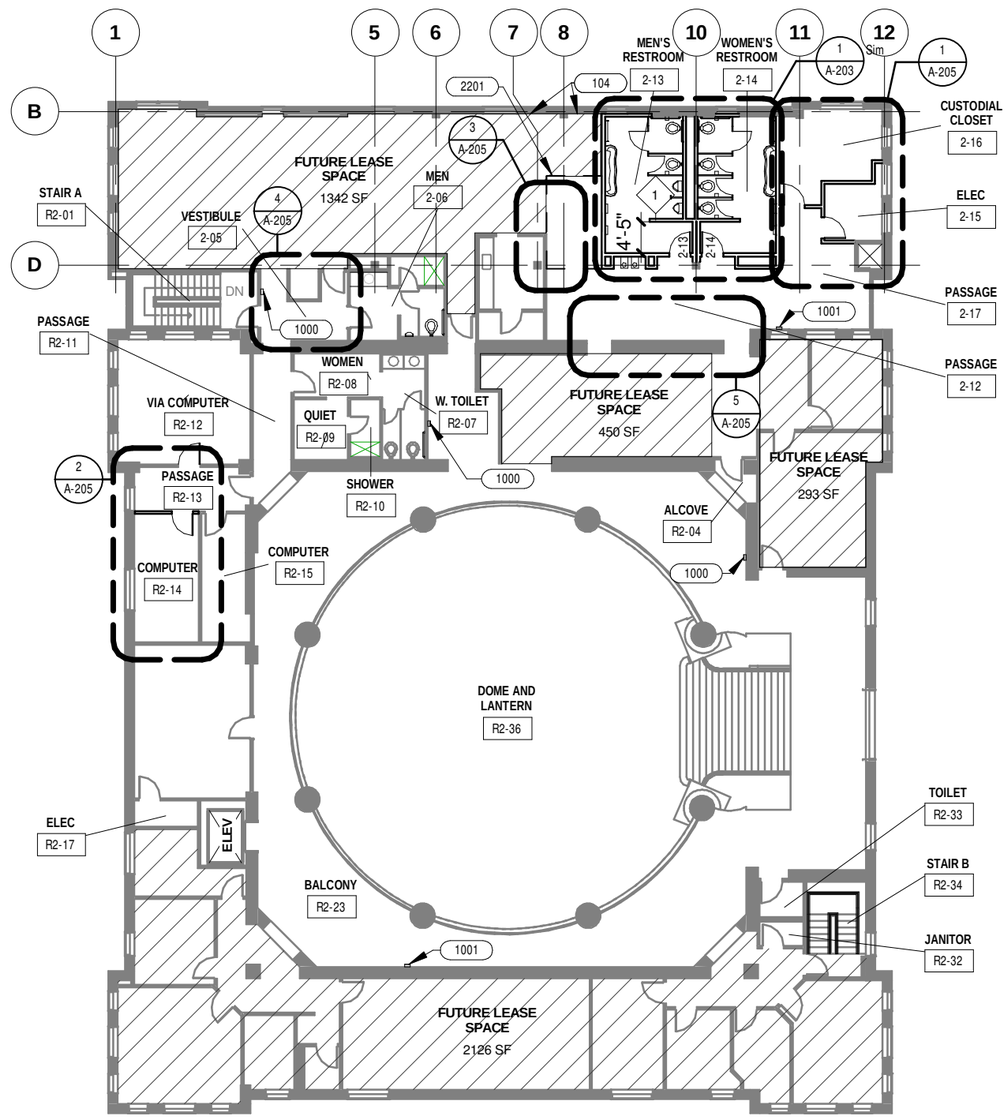
DRAWING TITLE
1ST FLOOR PLAN

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **A-201** REV. A

GENERAL NOTES

1. NO WORK TO OCCUR IN FUTURE LEASE SPACES.
2. PROTECT EXISTING FINISHES DURING CONSTRUCTION.
3. FUTURE LEASE SPACE SQUARE FOOTAGES ARE APPROXIMATE. VALUES SHOWN MAY NOT AGREE WITH LEASE AGREEMENT SQUARE FOOTAGE.



SHEET KEYNOTES

104	INFILL WALL TO MATCH EXISTING
1000	FIRE EXTINGUISHER CABINET. MOUNT TOP OF CABINET AT 48" AFF
1001	EXISTING FIRE EXTINGUISHER CABINET
2201	LINE OF FUTURE LOCATION FOR FAMILY RESTROOM

1 **2ND FLOOR PLAN**

3/64" = 1'-0"

SEAL

NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.
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TEXAS ARCHITECT
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VIA primo
WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	65% Documents	06-25-10			

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DRAWING TITLE: 2ND FLOOR PLAN

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DRAWING NO. A-202 | REV. A

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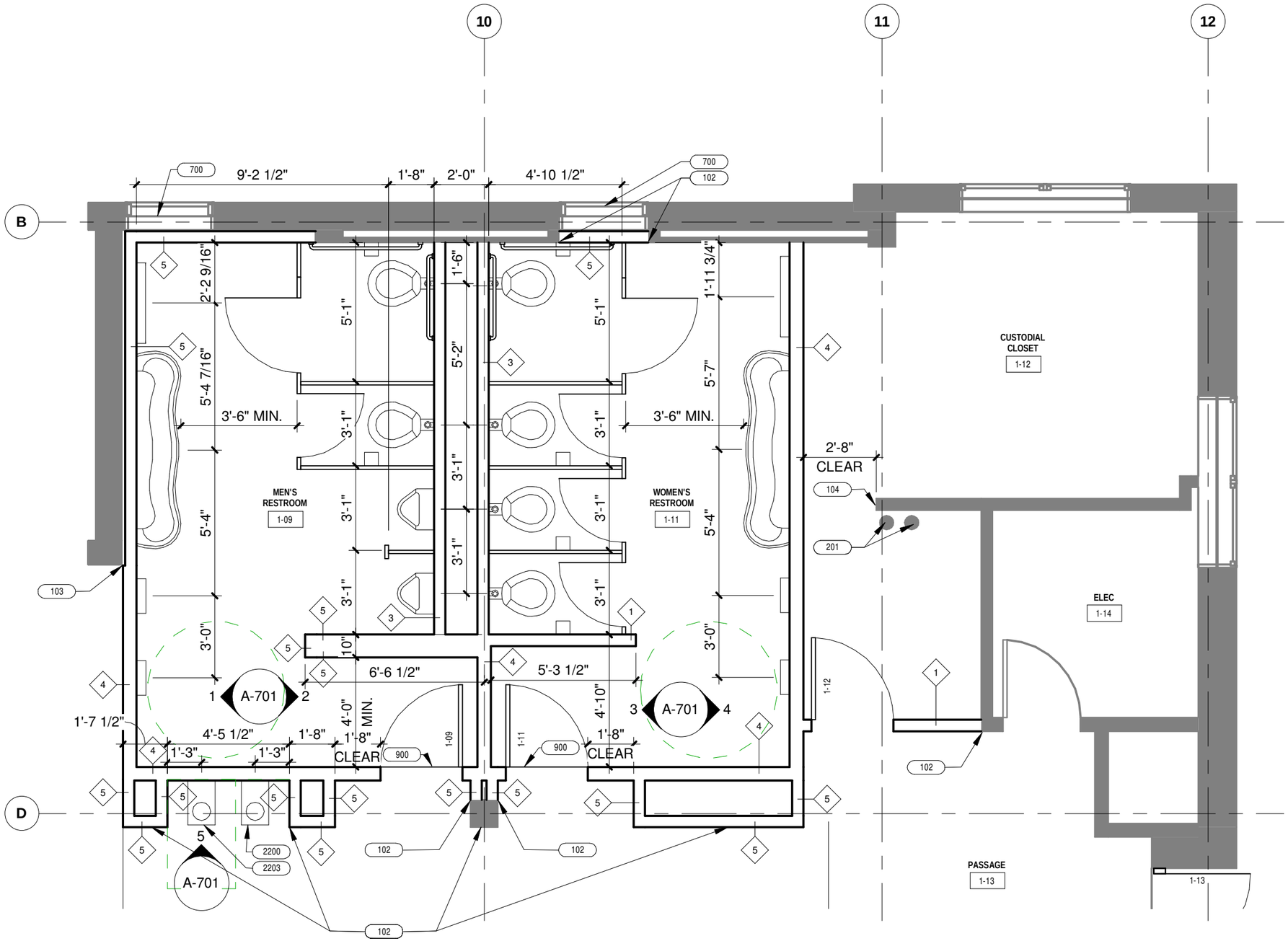

GENERAL NOTES

1. NO WORK TO OCCUR IN FUTURE LEASE SPACES.
2. PROTECT EXISTING FINISHES DURING CONSTRUCTION.
3. FUTURE LEASE SPACE SQUARE FOOTAGES ARE APPROXIMATE. VALUES SHOWN MAY NOT AGREE WITH LEASE AGREEMENT SQUARE FOOTAGE.

SHEET KEYNOTES

102	ALIGN
103	CONSTRUCT NEW WALL AGAINST EXISTING WALL
104	INFILL WALL TO MATCH EXISTING
201	EXISTING PIPE, RE: MEP.
700	COVER EXISTING WINDOW WITH PRIVACY FILM
900	FLOORING TRANSITION
2200	WATER FOUNTAIN RE: PLUMBING
2203	ADA ACCESSIBLE WATER FOUNTAIN RE: PLUMBING

SEAL

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1 1ST FLOOR ENLARGED RESTROOM PLAN

1/4" = 1'-0"

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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PARSONS NO. 445738
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DRAWING TITLE: ENLARGED RESTROOM PLAN

65% DOCUMENTS | JUNE 25, 2010

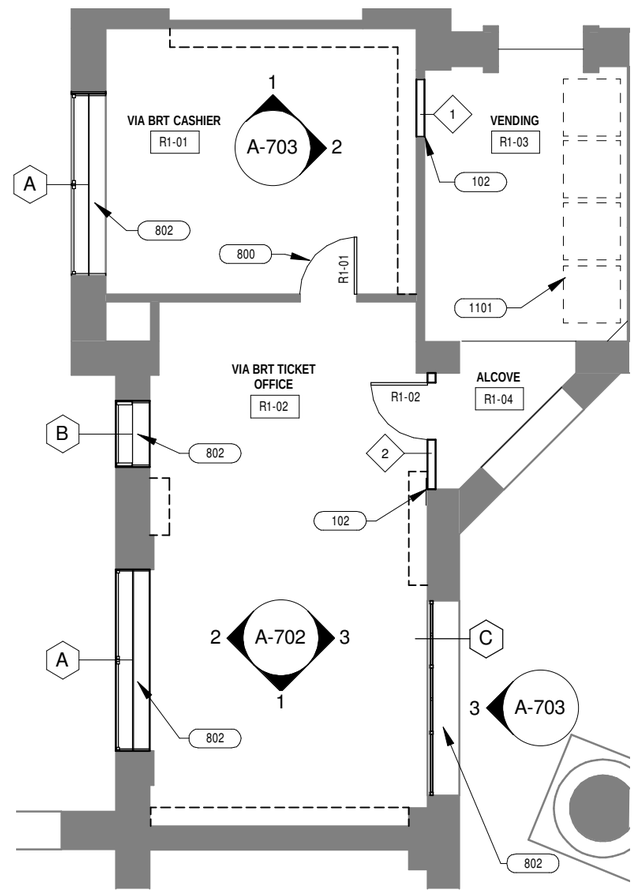
DRAWING NO. A-203 | REV. A

GENERAL NOTES

1. NO WORK TO OCCUR IN FUTURE LEASE SPACES.
2. PROTECT EXISTING FINISHES DURING CONSTRUCTION.
3. FUTURE LEASE SPACE SQUARE FOOTAGES ARE APPROXIMATE. VALUES SHOWN MAY NOT AGREE WITH LEASE AGREEMENT SQUARE FOOTAGE.

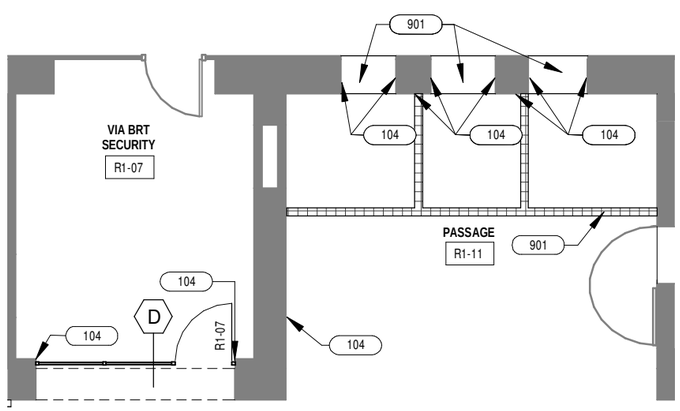
SHEET KEYNOTES

102	ALIGN
104	INFILL WALL TO MATCH EXISTING
800	NEW DOOR IN EXISTING OPENING
802	OVERHEAD COILING DOOR, RE: B/A-901
901	PATCH FLOORING TO MATCH EXISTING
1101	VENDING MACHINES, N.I.C.



1 1ST FLOOR ENLARGED TICKET OFFICE AND CASHIER PLAN

1/8" = 1'-0"



2 1ST FLOOR ENLARGED VIA BRT SECURTIY AND PASSAGE

1/8" = 1'-0"

SEAL

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PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
ENLARGED PLANS- SHEET 1

65% DOCUMENTS | JUNE 25, 2010

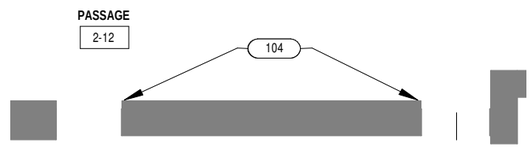
DRAWING NO. A-204 | REV. A

GENERAL NOTES

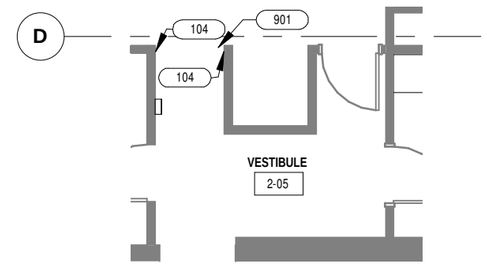
1. NO WORK TO OCCUR IN FUTURE LEASE SPACES.
2. PROTECT EXISTING FINISHES DURING CONSTRUCTION.
3. FUTURE LEASE SPACE SQUARE FOOTAGES ARE APPROXIMATE. VALUES SHOWN MAY NOT AGREE WITH LEASE AGREEMENT SQUARE FOOTAGE.

SHEET KEYNOTES

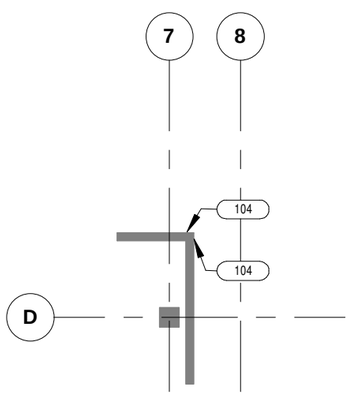
102	ALIGN
104	INFILL WALL TO MATCH EXISTING
105	VERIFY IN FIELD WITH EXISTING WINDOW CONDITION
901	PATCH FLOORING TO MATCH EXISTING



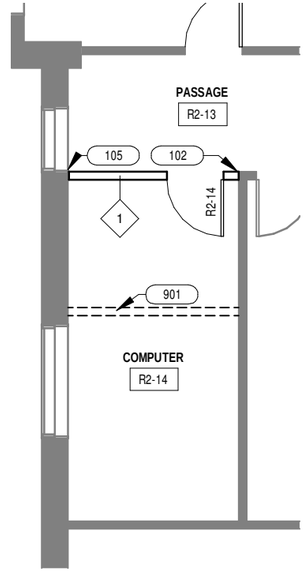
5 **2ND FLOOR PASSAGE**
1/8" = 1'-0"



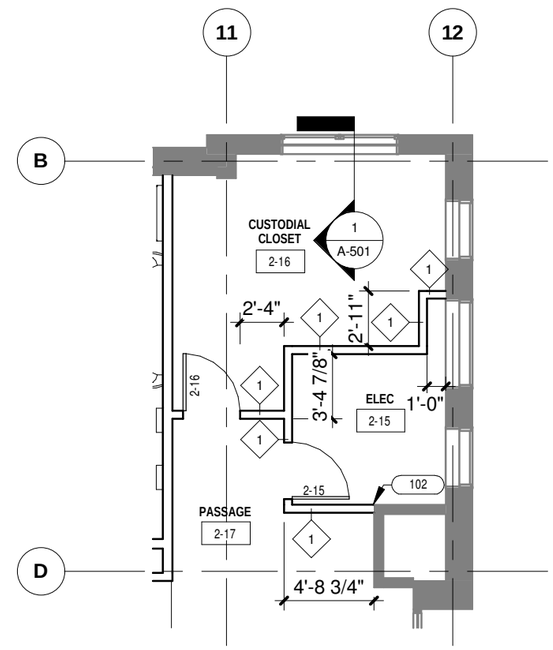
4 **2ND FLOOR VESTIBULE**
1/8" = 1'-0"



3 **2ND FLOOR FUTURE LEASE SPACE**
1/8" = 1'-0"



2 **2ND FLOOR COMPUTER ROOM**
1/8" = 1'-0"



1 **2ND FLOOR CUSTODIAL CLOSET AND ELEC**
1/8" = 1'-0"

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DRAWING TITLE
ENLARGED PLAN- SHEET 2

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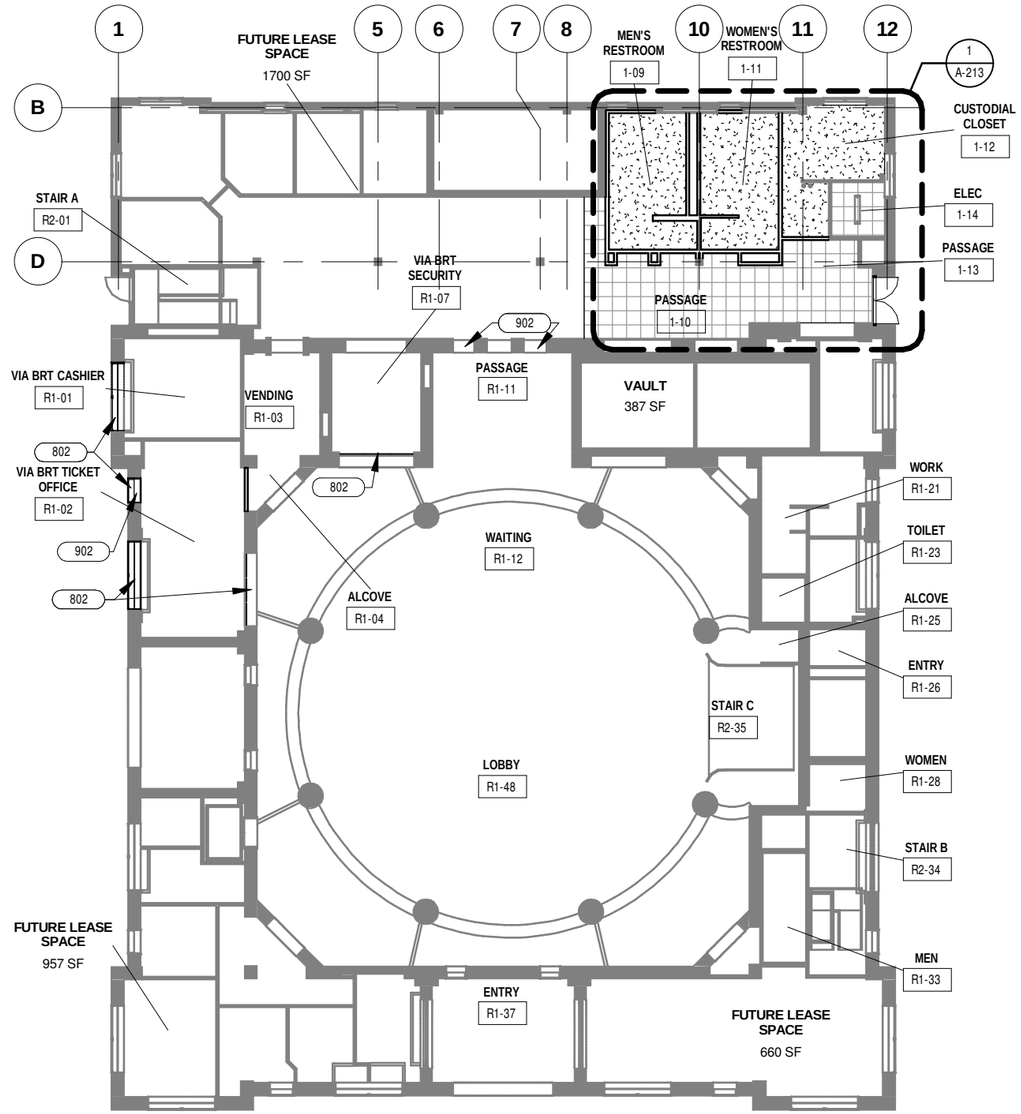
DRAWING NO. **A-205** REV. A

GENERAL NOTES

1. PROTECT EXISTING LIGHTS, HVAC DEVICES, AND OTHER CEILING ELEMENTS TO REMAIN.

SHEET KEYNOTES

802 OVERHEAD COILING DOOR, RE: B/A-901
902 PATCH CEILING TO MATCH EXISTING



1 **1ST FLOOR REFLECTED CEILING PLAN**
3/64" = 1'-0"

SEAL
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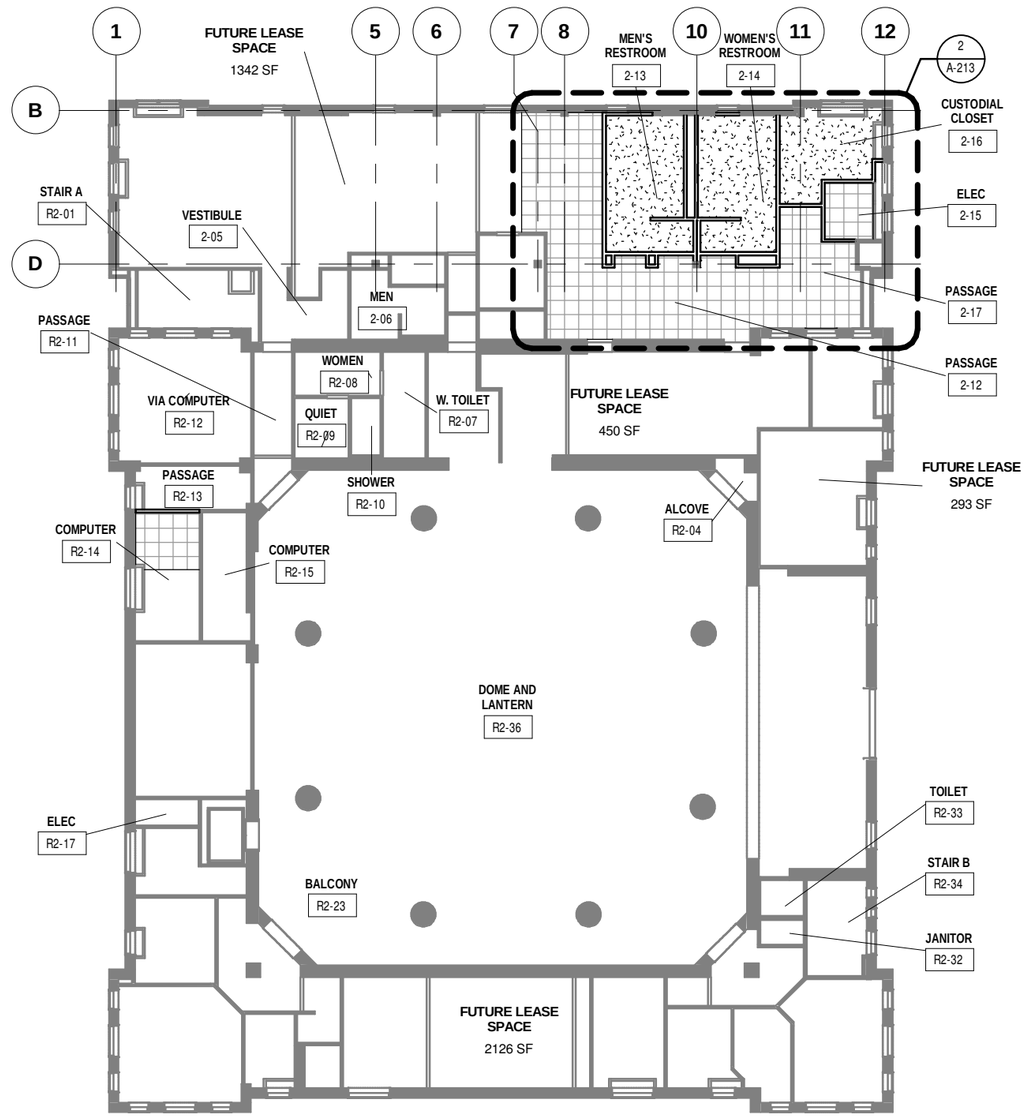
DRAWING TITLE
1ST FLOOR REFLECTED CEILING PLAN

65% DOCUMENTS | JUNE 25, 2010
DRAWING NO. A-211 | REV. A



1 **2ND FLOOR REFLECTED CEILING PLAN**

3/64" = 1'-0"

GENERAL NOTES

1. PROTECT EXISTING LIGHTS, HVAC DEVICES, AND OTHER CEILING ELEMENTS TO REMAIN.

SHEET KEYNOTES

SEAL

NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION.
HAL E. LYNCH
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NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D

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A	65% Documents	06-25-10			

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DRAWING TITLE
2ND FLOOR REFLECTED CEILING PLAN

65% DOCUMENTS | JUNE 25, 2010

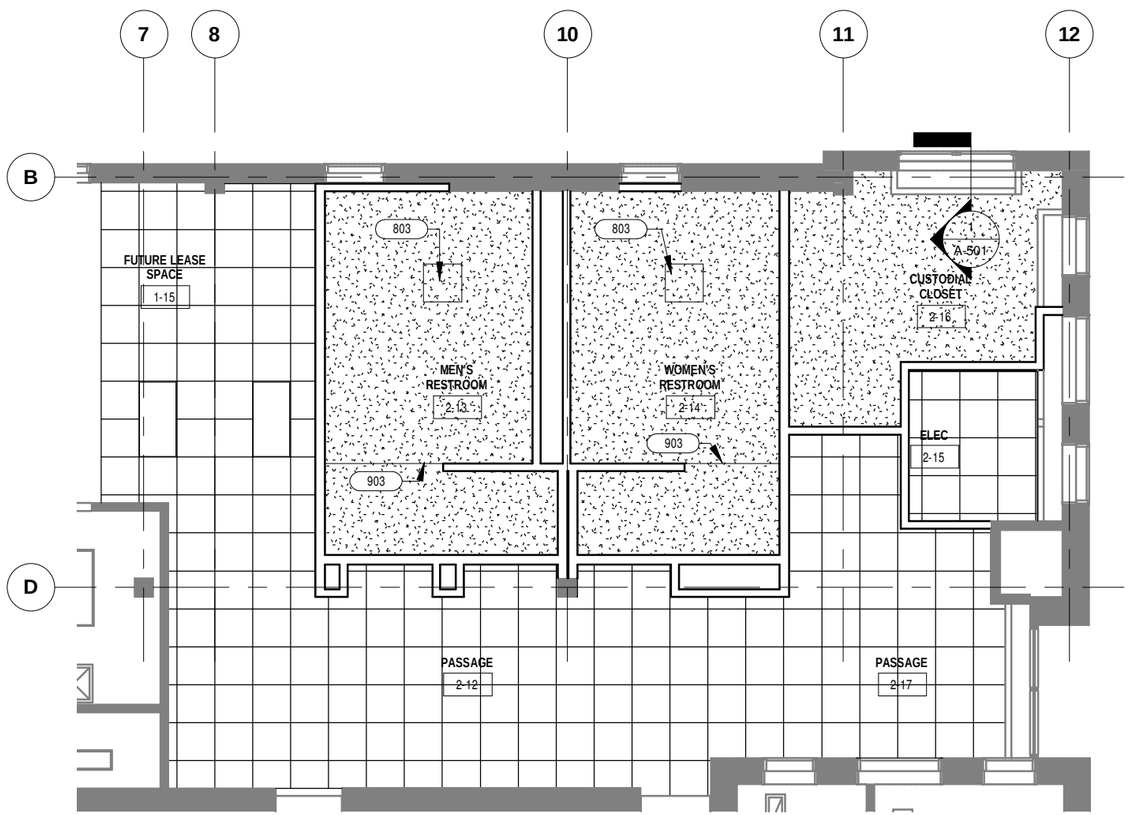
DRAWING NO. **A-212** REV. A

GENERAL NOTES

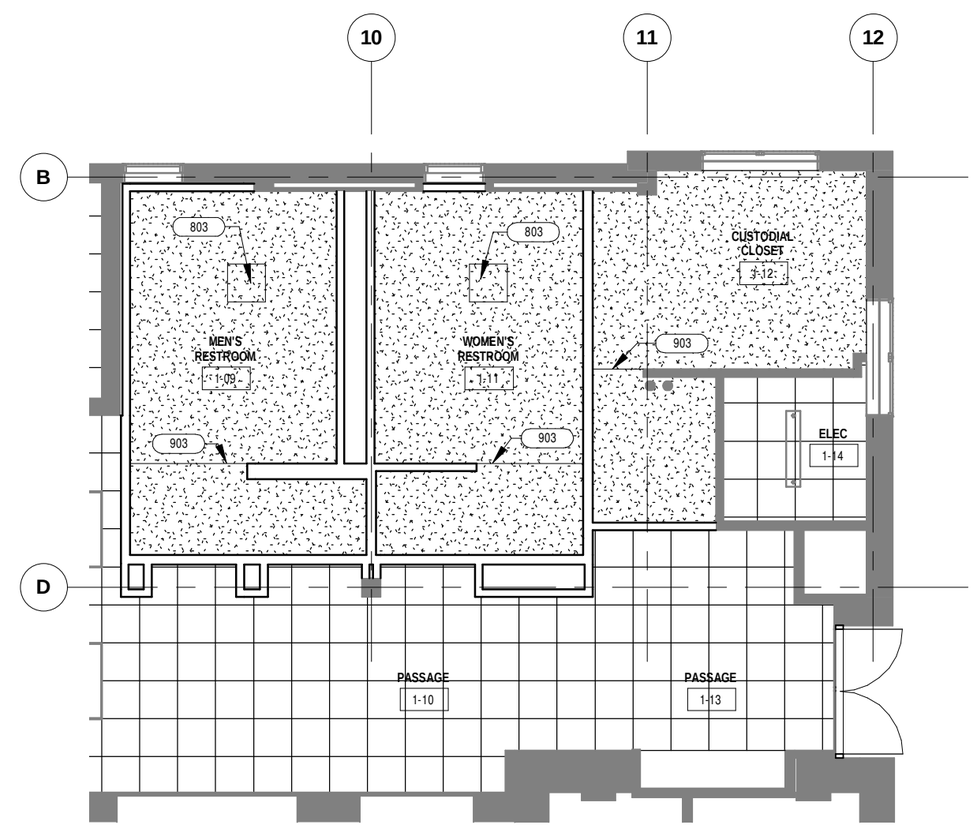
1. PROTECT EXISTING LIGHTS, HVAC DEVICES, AND OTHER CEILING ELEMENTS TO REMAIN.

SHEET KEYNOTES

803 ACCESS PANEL
903 CONTROL JOINT



2 2ND FLOOR ENLARGED REFLECTED CEILING PLAN
1/8" = 1'-0"



1 1ST FLOOR ENLARGED REFLECTED CEILING PLAN
1/8" = 1'-0"

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DRAWING TITLE
ENLARGED REFLECTED CEILING PLANS

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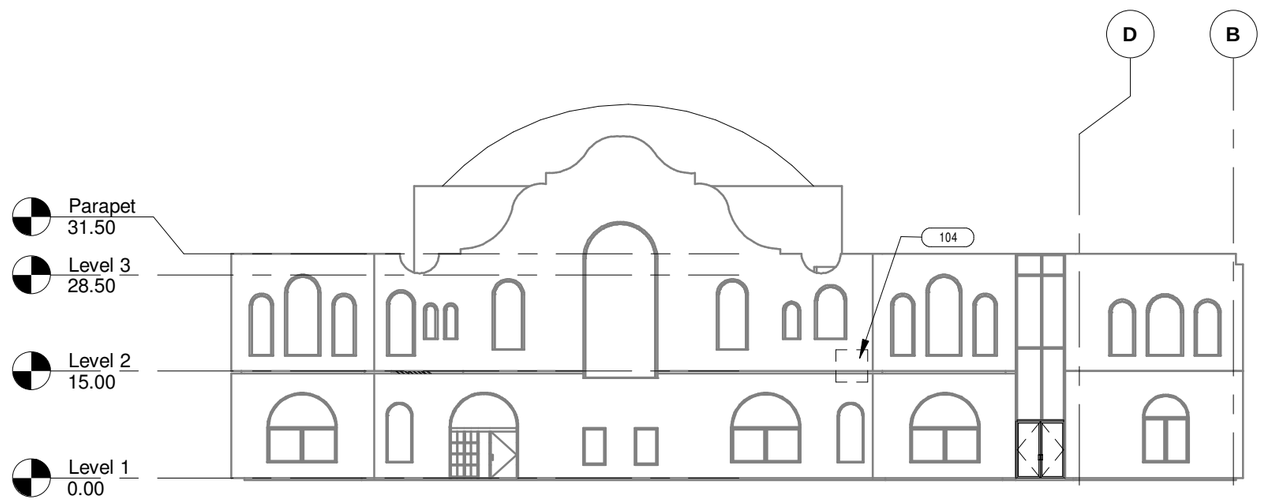
DRAWING NO. **A-213** REV. A

SHEET KEYNOTES

104 INFILL WALL TO MATCH EXISTING



1 **NORTH EXTERIOR ELEVATION**

3/64" = 1'-0"

SEAL

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A	65% Documents	06-25-10			

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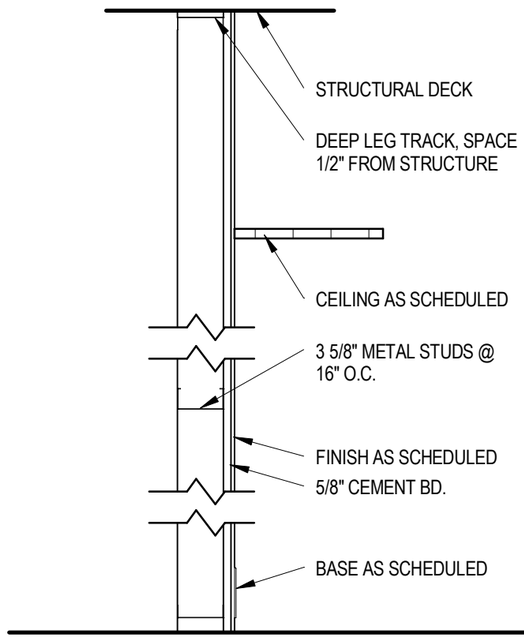
PARSONS NO. 445738
VIA CONTRACT NO.

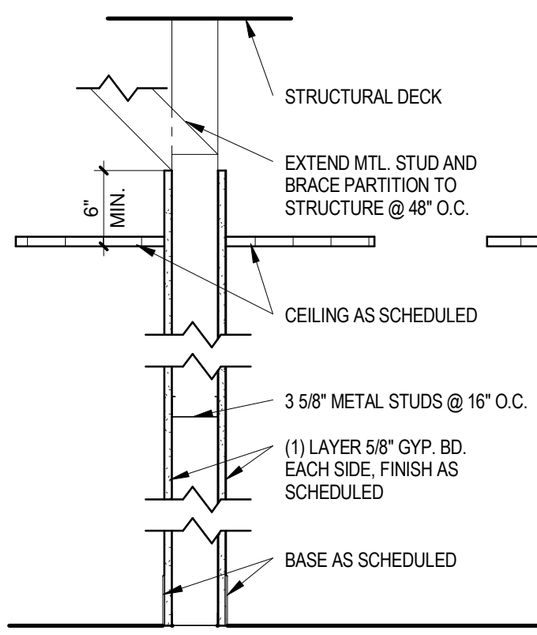
DRAWING TITLE
EXTERIOR ELEVATIONS

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **A-301** REV. A



TYPE 5



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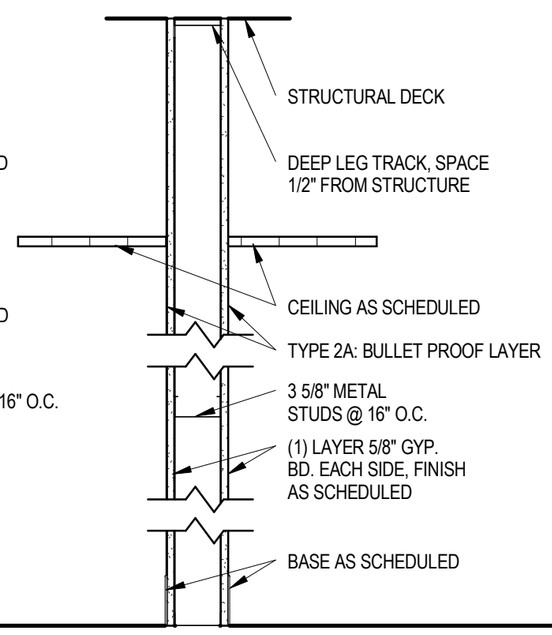

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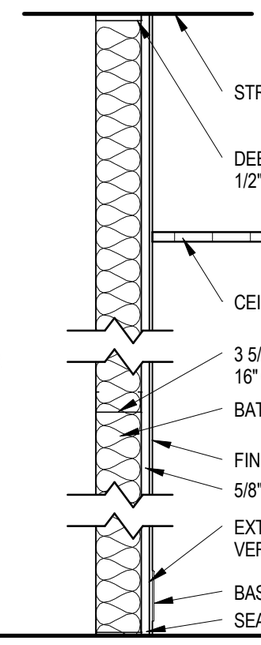
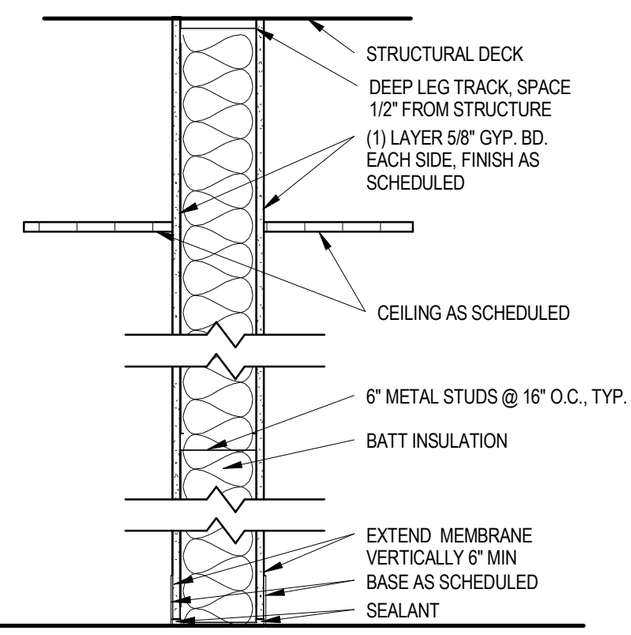


TYPE 3
WET WALL CHASE



TYPE 4
RESTROOMS

SEAL

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A	65% Documents	06-25-10			

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DRAWING TITLE
WALL SECTIONS

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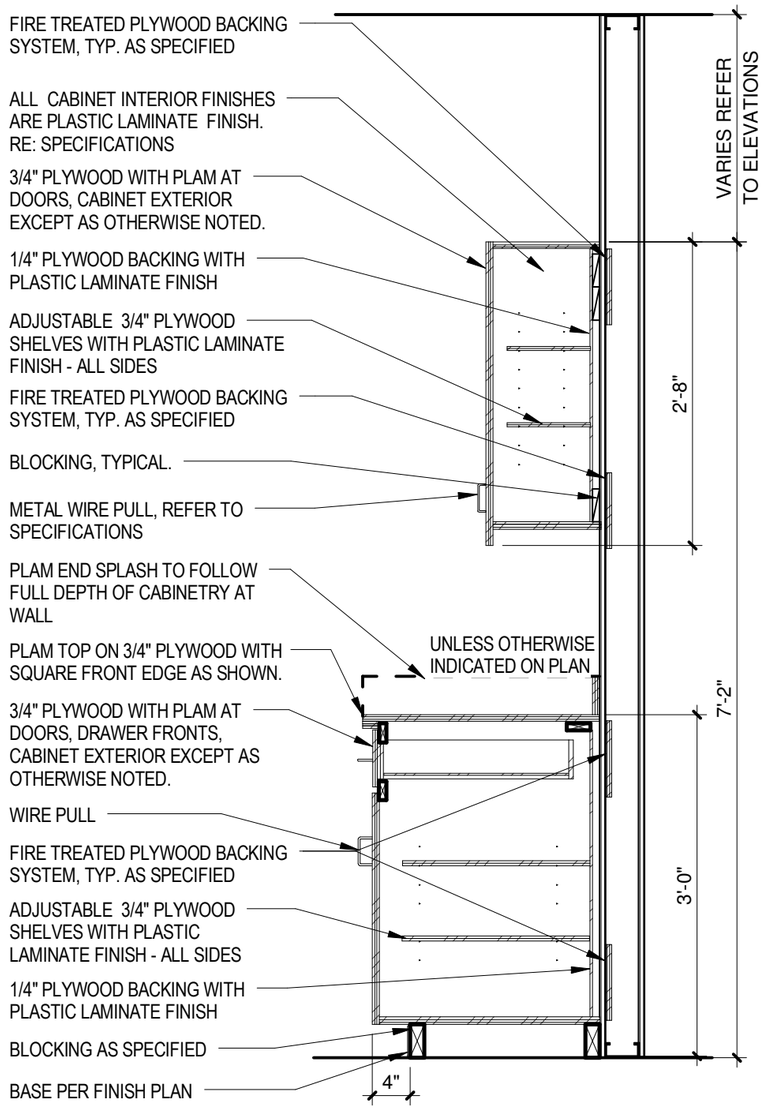
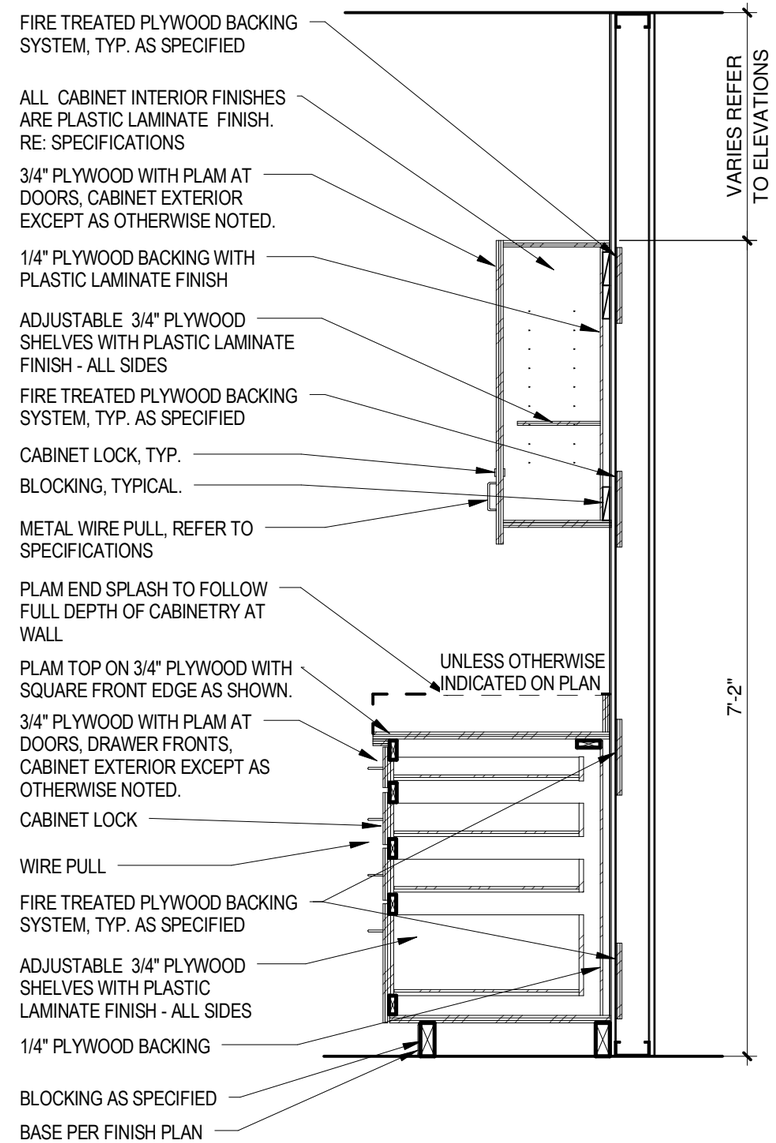
DRAWING NO. **A-401** REV. A



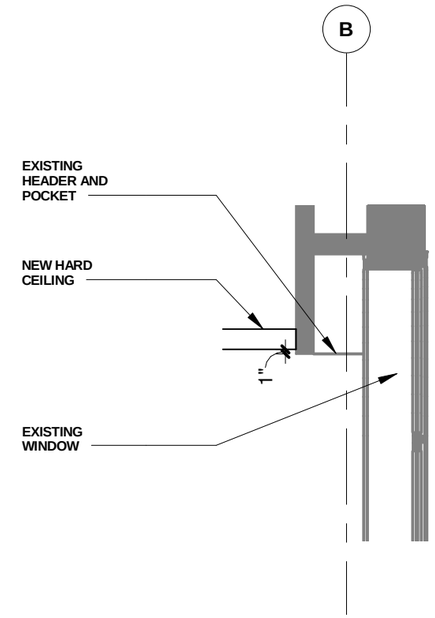
3 MILLWORK SECTION AT UPPER AND LOWER CABINETS

3/4" = 1'-0"



2 MILLWORK SECTION AT DRAWERS

3/4" = 1'-0"



1 SECTION AT EXISTING SOFFIT

3/8" = 1'-0"

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DRAWING TITLE: SECTION DETAILS- SHEET 1

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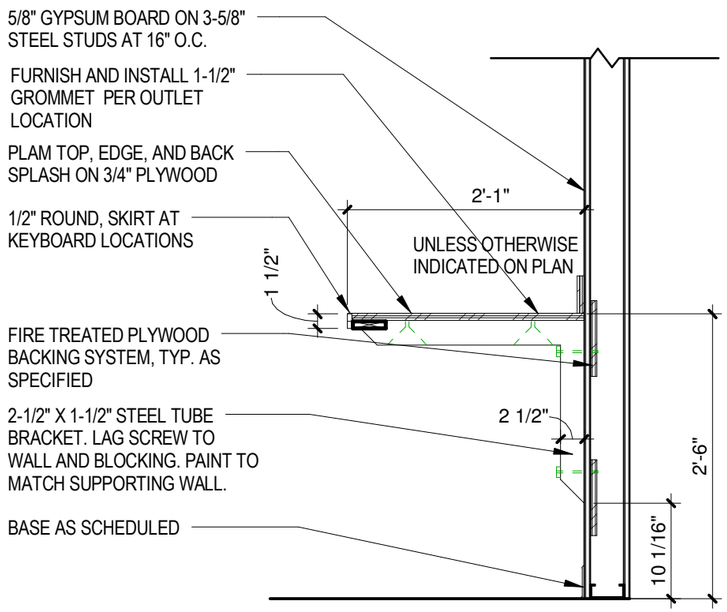
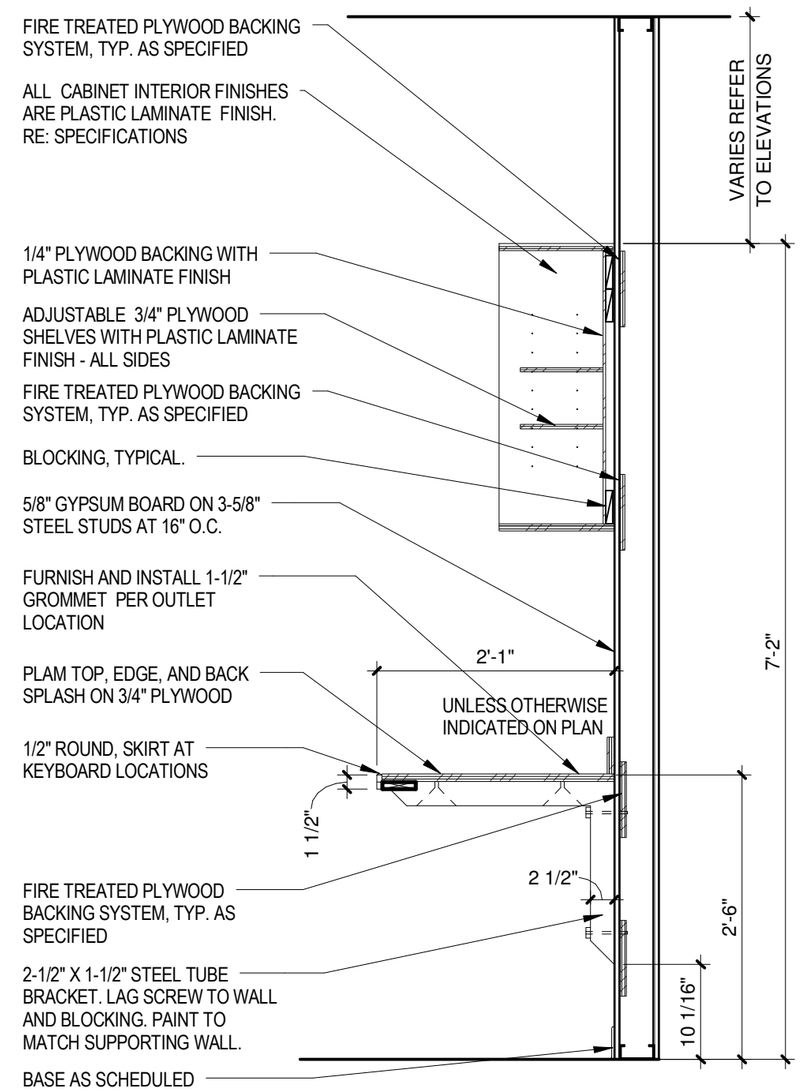
DRAWING NO. A-501 | REV. A



2 MILLWORK SECTION AT COUNTER

3/4" = 1'-0"



1 MILLWORK SECTION AT COUNTER AND UPPER CABINET

3/4" = 1'-0"

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DRAWING TITLE: SECTION DETAILS- SHEET 2

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DRAWING NO. A-502 | REV. A

DRAWING UNDER DEVELOPMENT

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CHECKED BY: Approver
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DRAWING TITLE
PLAN DETAILS

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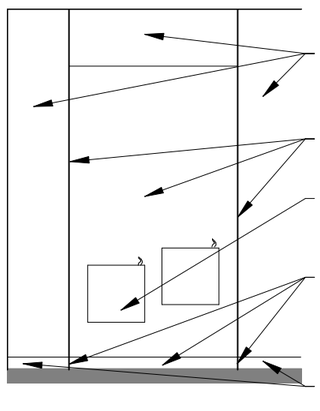
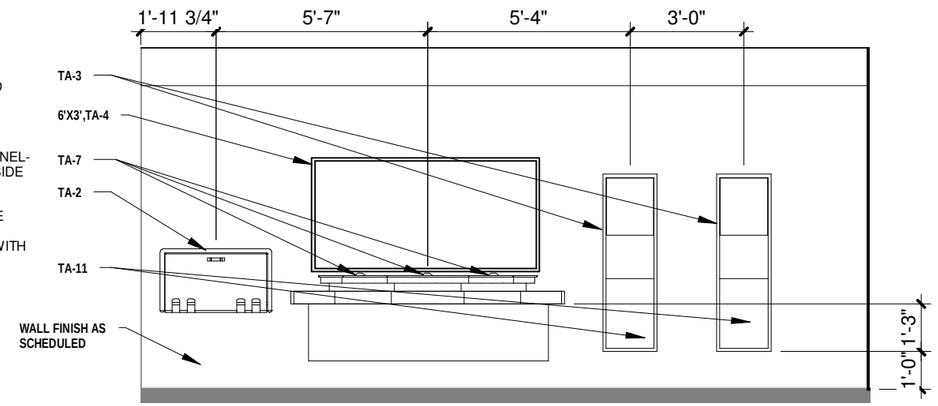
DRAWING NO. **A-511** | REV. A

TOILET ACCESSORIES SCHEDULE, RE: SPECS

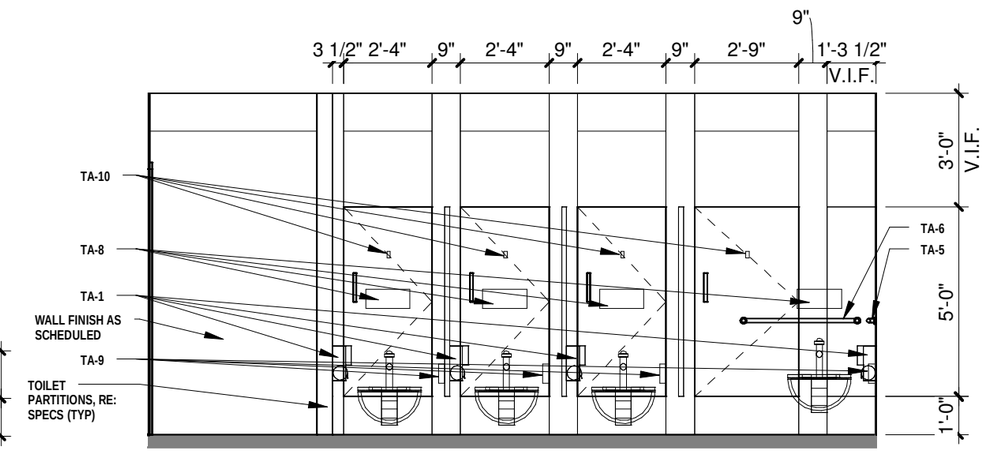
KEY	DESCRIPTION
TA-1	TOILET TISSUE DISPENSER
TA-2	BABY CHANGING STATION
TA-3	PAPER TOWEL DISPENSER
TA-4	MIRROR UNIT
TA-5	SIDE GRAB BAR
TA-6	REAR GRAB BAR
TA-7	LIQUID SOAP DISPENSER
TA-8	SEAT COVER DISPENSER
TA-9	SANITARY-NAPKIN DISPOSAL
TA-10	COAT HOOK
TA-11	WASTE RECEPTACLE



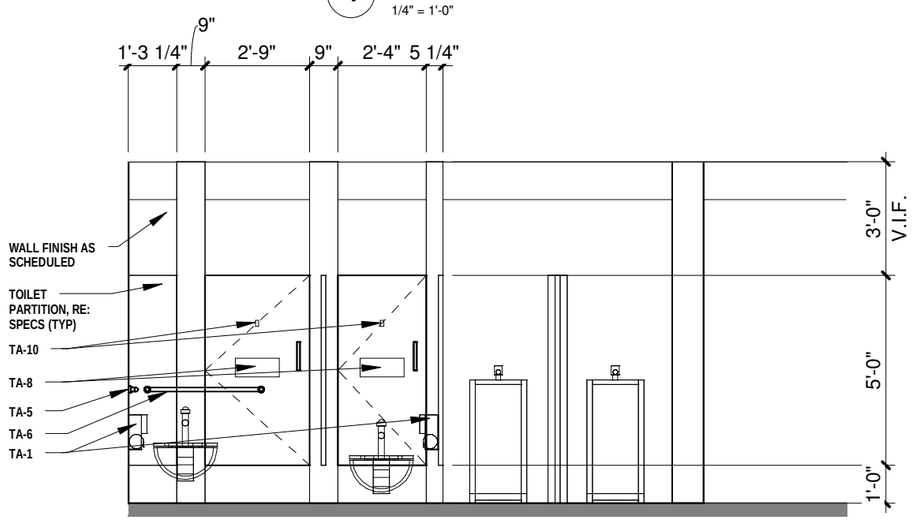
5 WATER FOUNTAINS
1/4" = 1'-0"



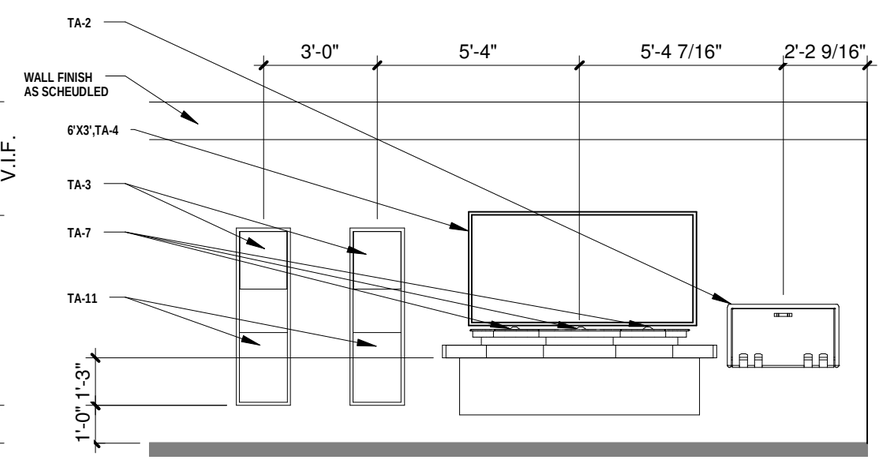
4 WOMEN'S RR- NORTH
1/4" = 1'-0"



3 WOMEN'S RR- SOUTH
1/4" = 1'-0"



2 MEN'S RR- NORTH
1/4" = 1'-0"



1 MEN'S RR- SOUTH
1/4" = 1'-0"

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DRAWING TITLE
INTERIOR ELEVATIONS- SHEET 1

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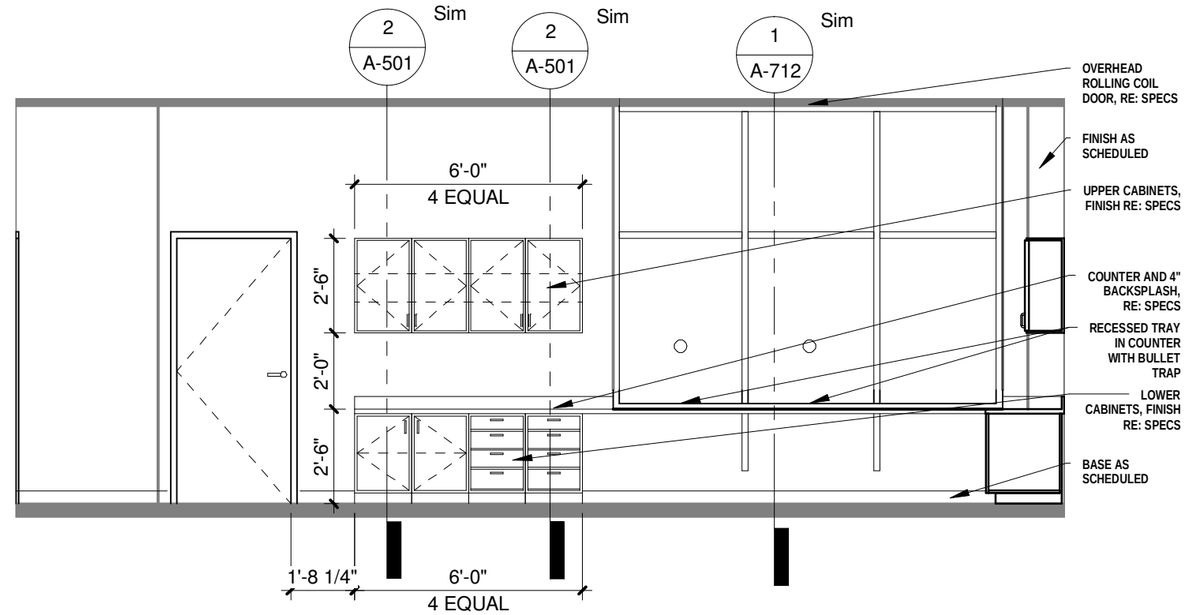
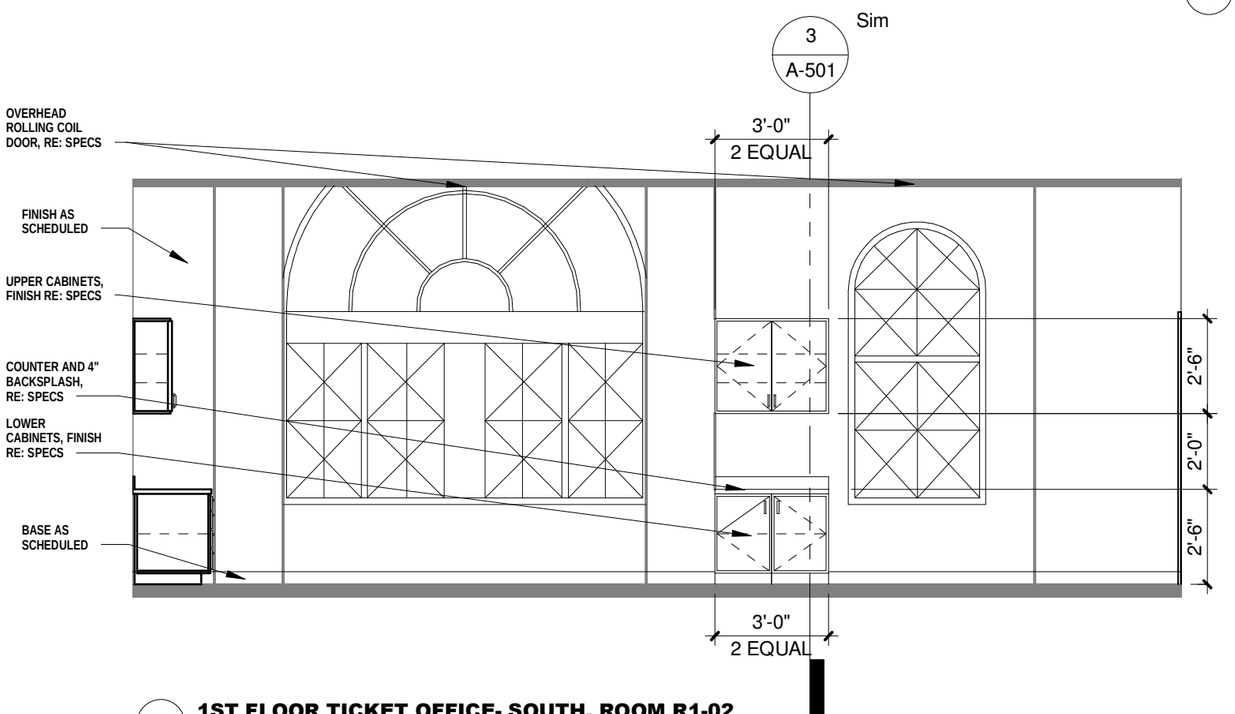
DRAWING NO. **A-701** REV. A



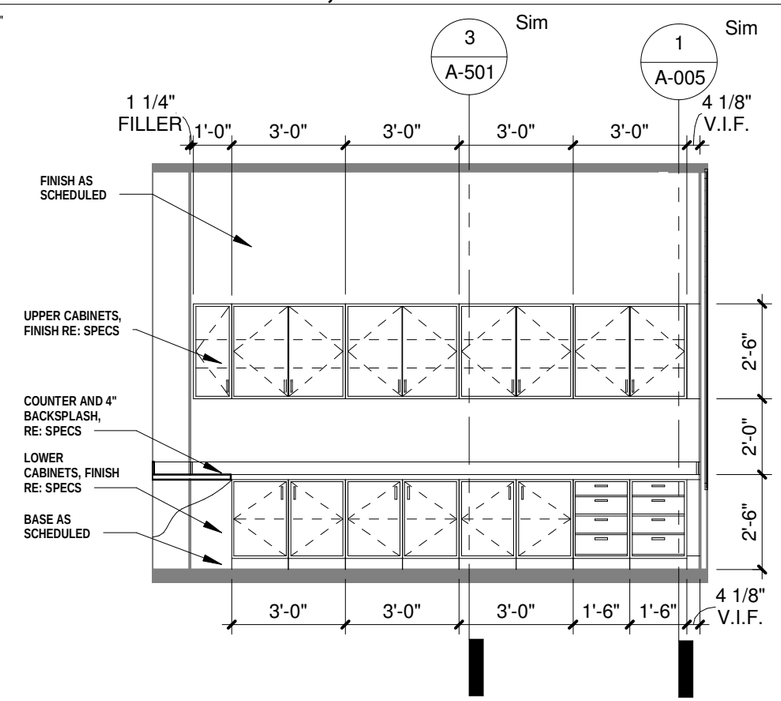
3 **1ST FLOOR TICKET OFFICE- NORTH, ROOM R1-02**

1/4" = 1'-0"



2 **1ST FLOOR TICKET OFFICE- SOUTH, ROOM R1-02**

1/4" = 1'-0"



1 **1ST FLOOR TICKET OFFICE- EAST, ROOM R1-02**

1/4" = 1'-0"

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DRAWING TITLE
INTERIOR ELEVATIONS- SHEET 2

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DRAWING NO. **A-702** REV. A

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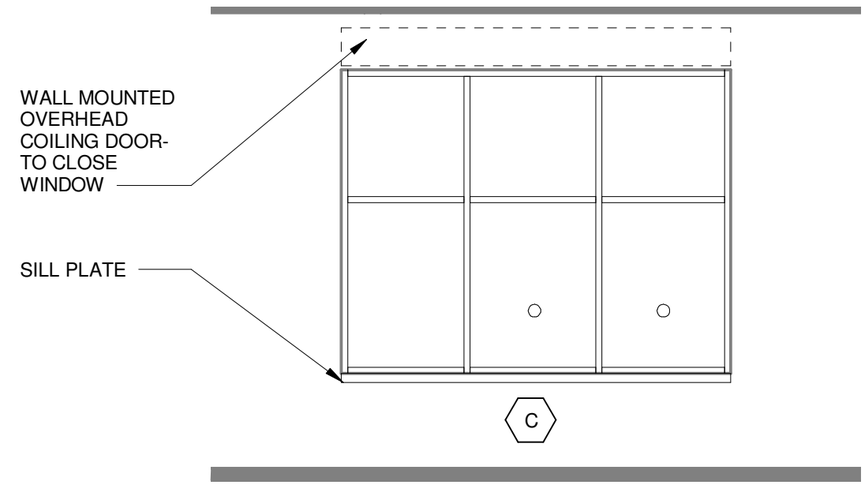
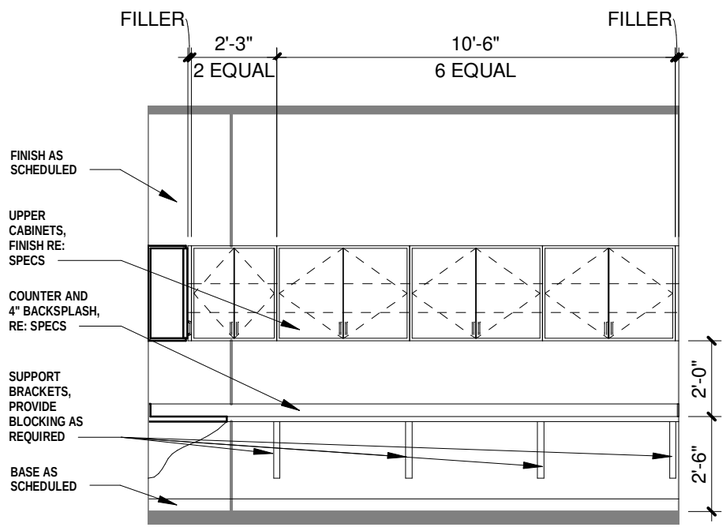
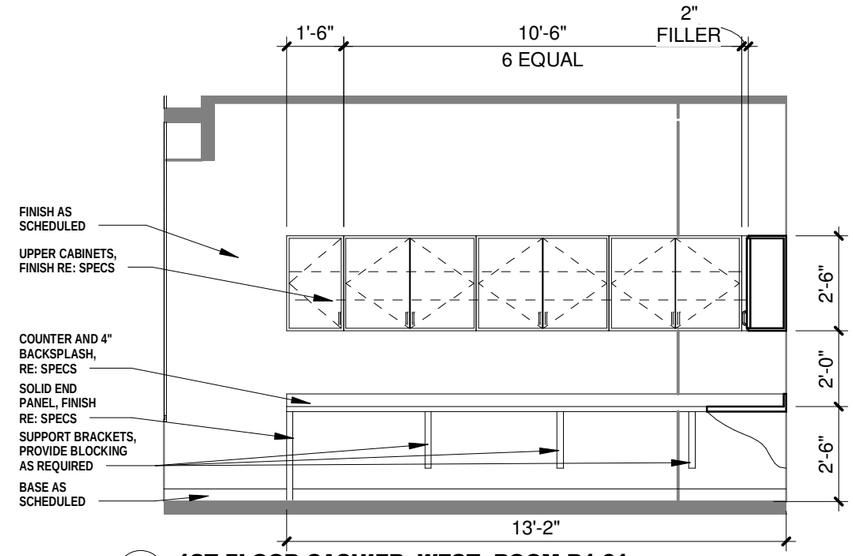


3 TRANSACTION WINDOW ELEVATION- SOUTH, ROOM R1-04
1/4" = 1'-0"



2 1ST FLOOR CASHIER- NORTH, ROOM R1-01
1/4" = 1'-0"



1 1ST FLOOR CASHIER- WEST, ROOM R1-01
1/4" = 1'-0"

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A	65% Documents	06-25-10			

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DRAWING TITLE
INTERIOR ELEVATIONS- SHEET 3

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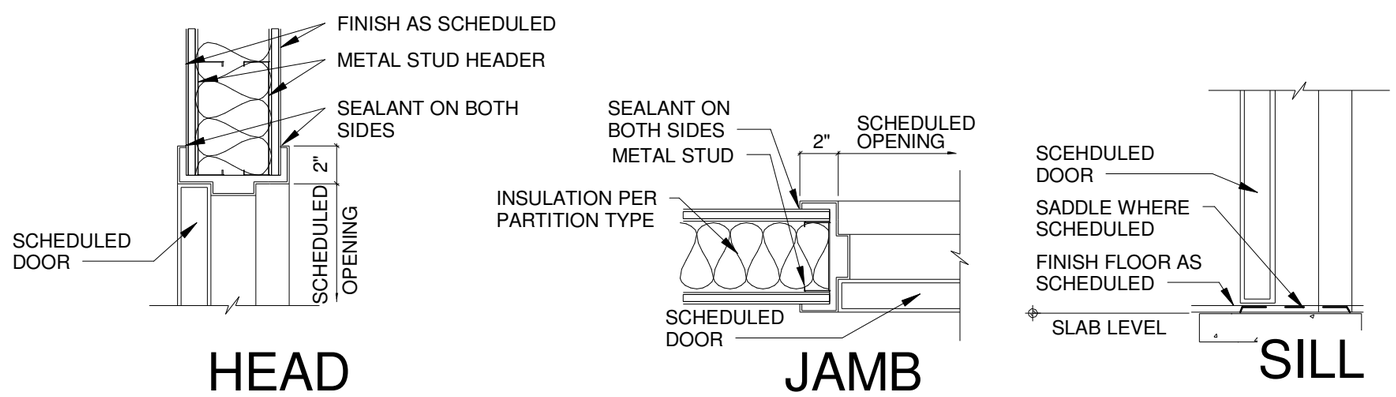
DRAWING NO. **A-703** REV. A



1 **DOOR HEAD/JAMB/SILL**

1 1/2" = 1'-0"

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DRAWING TITLE: **DOOR DETAILS**

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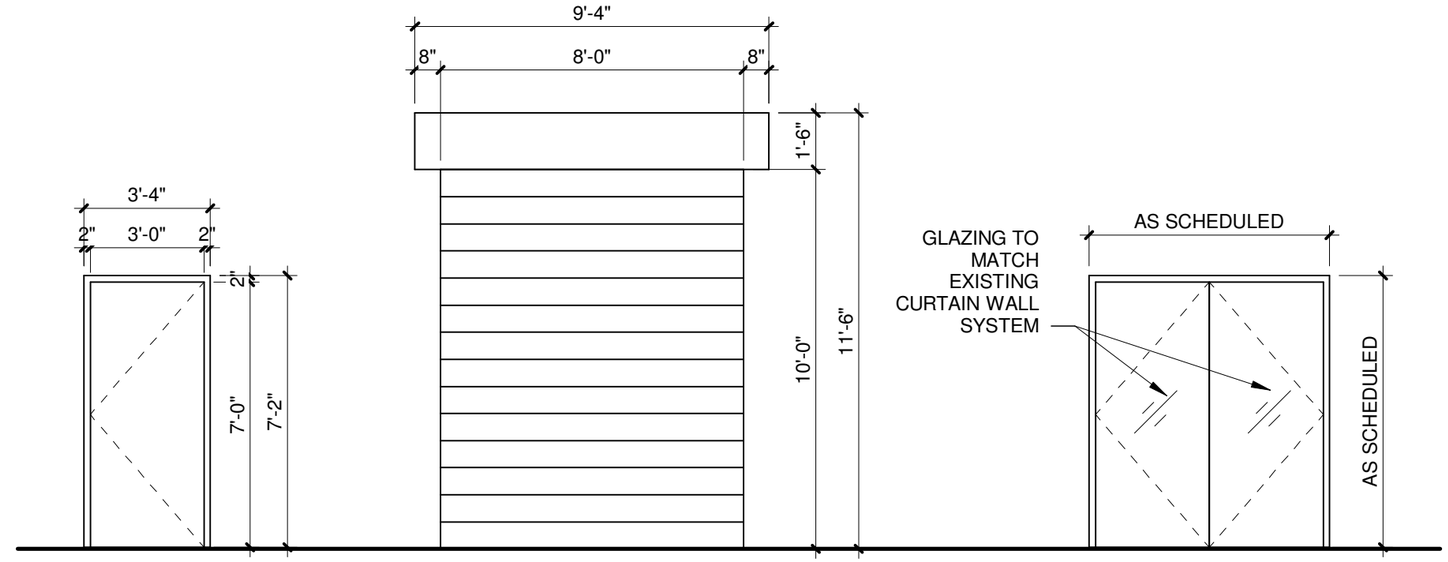
DRAWING NO. **A-712** | REV. A



A FLUSH DOOR

B OVERHEAD COILING DOOR

C FLUSH DOUBLE DOOR

DOOR SCHEDULE													
		DOORS						FRAMES		DETAILS			
Door No.	Room Name	Width	Height	Thickness	Finish	Door Material	Door Type	Frame Type	Frame Material	Head	Jamb	Sill	Comments
1-09	WOMEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	WITH LOUVER
1-11	MEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	WITH LOUVER
1-12	CUSTODIAL CLOSET	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	
1-13	PASSAGE	6'-7"	7'-10 3/4"	1 3/4"	GLASS	HM	C	A	HM	1/A-712	1/A7-12	1/A-712	
2-13	WOMEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	WITH LOUVER
2-14	MEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	WITH LOUVER
2-15	ELECTRICAL	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	
2-16	CUSTODIAL CLOSET	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	
R1-01	VIA BRT CASHIER	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	
R1-02	VIA BRT TICKET OFFICE	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	BULLET RESISTANT
R1-07	VIA BRT SECURITY	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	
R2-14	COMPUTER	3'-0"	7'-0"	1 3/4"	WD VNR	SCWD	A	A	HM	1/A-712	1/A7-12	1/A-712	

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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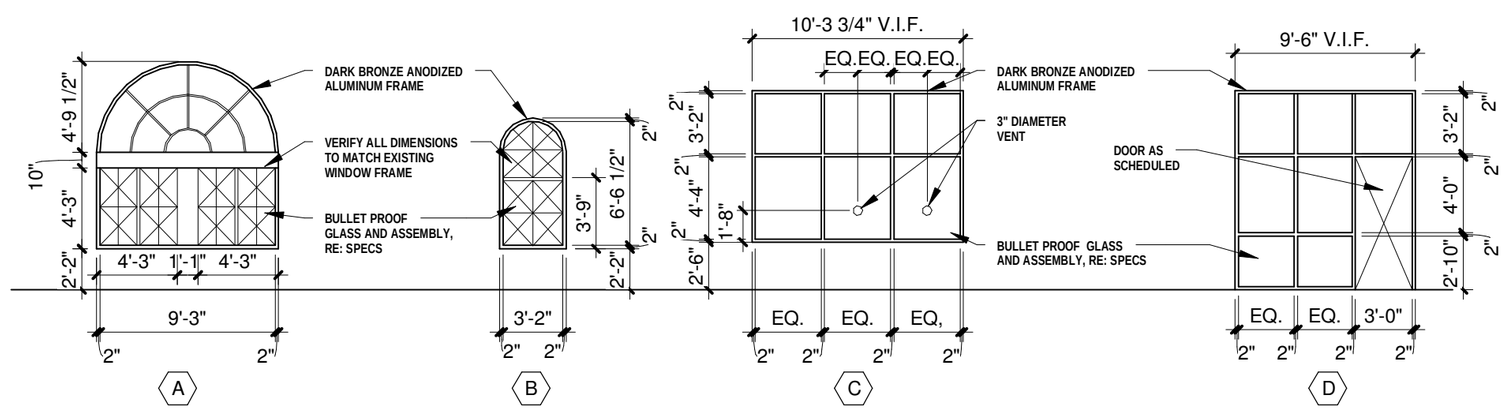
DRAWING TITLE
DOOR AND FRAME SCHEDULE AND TYPES

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **A-901** REV. A

WINDOW SCHEUDLE

TYPE	SIZE	MODEL	FINISH	HEAD	JAMB	SILL	COMMENTS
A	AS SCHEDULED	RE SPECS	RE SPECS				BULLET PROOF
A	AS SCHEDULED	RE SPECS	RE SPECS				BULLET PROOF
B	AS SCHEDULED	RE SPECS	RE SPECS				BULLET PROOF
C	AS SCHEDULED	RE SPECS	RE SPECS				BULLET PROOF
D	AS SCHEDULED	RE SPECS	RE SPECS				BULLET PROOF



1 **WINDOW TYPES**

1/8" = 1'-0"

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DRAWING TITLE
WINDOW SCHEDULE AND TYPES

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **A-902** REV. A

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ROOM FINISH SCHEDULE							
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height	Comments
1-09	MEN'S RESTROOM	RESINOUS	RESINOUS	SS WAINSCOAT / PAINT	GYP BD	10'-0"	
1-10	PASSAGE	CARPET	MATCH EXISTING- RUBBER	PAINT	ACT	MATCH EXISTING	
1-11	WOMEN'S RESTROOM	RESINOUS	RESINOUS	SS WAINSCOAT / PAINT	GYP BD	10'-0"	
1-12	CUSTODIAL CLOSET	RESINOUS	RESINOUS	SS WAINSCOAT / PAINT	GYP BD	10'-0"	
1-13	PASSAGE	CARPET	MATCH EXISTING- RUBBER	PAINT	ACT	MATCH EXISTING	
1-14	ELEC	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	EXISTING TO REMAIN	
R1-01	VIA BRT CASHIER	EXISTING TO REMAIN	MATCH EXISTING- RUBBER	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	
R1-02	VIA BRT TICKET OFFICE	EXISTING TO REMAIN	MATCH EXISTING- RUBBER	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	
R1-03	VENDING	EXISTING TO REMAIN	MATCH EXISTING- RUBBER	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	
R1-04	ALCOVE	EXISTING TO REMAIN	MATCH EXISTING- RUBBER	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	
R1-07	VIA BRT SECURITY	EXISTING TO REMAIN	EXISTING TO REMAIN	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	
R1-11	PASSAGE	CARPET	MATCH EXISTING- RUBBER	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	
R1-12	WAITING	TILE	N/A	N/A	EXISTING TO REMAIN	EXISTING TO REMAIN	
2-12	PASSAGE	CARPET	MATCH EXISTING- RUBBER	PAINT	ACT	MATCH EXISTING	
2-13	MEN'S RESTROOM	RESINOUS	RESINOUS	SS WAINSCOAT / PAINT	GYP BD	9'-0"	
2-14	WOMEN'S RESTROOM	RESINOUS	RESINOUS	SS WAINSCOAT / PAINT	GYP BD	9'-0"	
2-15	ELEC	RESINOUS	RESINOUS	PAINT	ACT	9'-0"	
2-16	CUSTODIAL CLOSET	RESINOUS	RESINOUS	SS WAINSCOAT / PAINT	GYP BD	9'-0"	
2-17	PASSAGE	CARPET	MATCH EXISTING- RUBBER	PAINT	ACT	9'-0"	
R2-13	PASSAGE	EXISTING TO REMAIN	MATCH EXISTING- RUBBER	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	
R2-14	COMPUTER	CARPET	MATCH EXISTING- RUBBER	PAINT	EXISTING TO REMAIN	EXISTING TO REMAIN	

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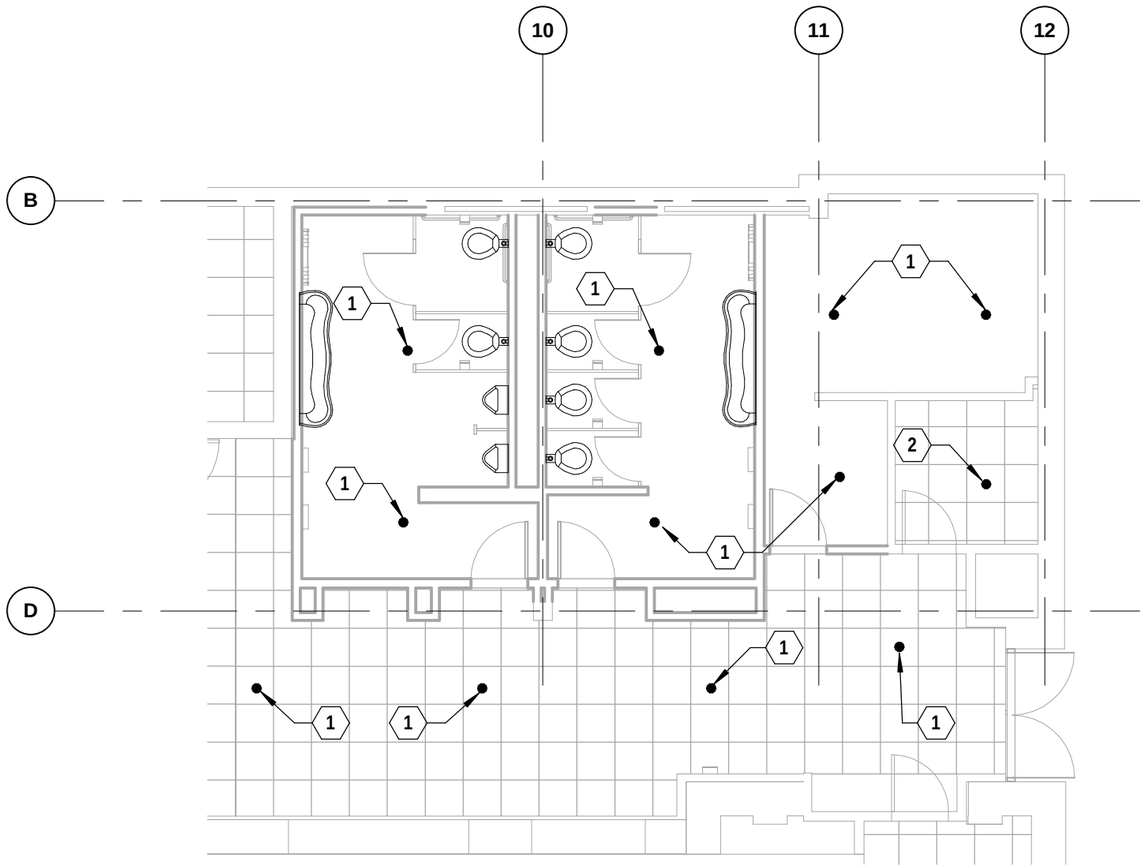
DRAWING TITLE
FINISH SCHEDULE

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **A-903** | REV. A

KEYNOTES

1. NEW SPRINKLER HEAD TO BE ADDED
2. EXISTING SPRINKLER HEAD



FIRE PROTECTION - PARTIAL PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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6/24/2010 4:22:25 PM

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

DRAWN BY: PLC
DESIGNED BY
CHECKED BY
PROJECT MGR.

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PARSONS NO. 445738
VIA CONTRACT NO.

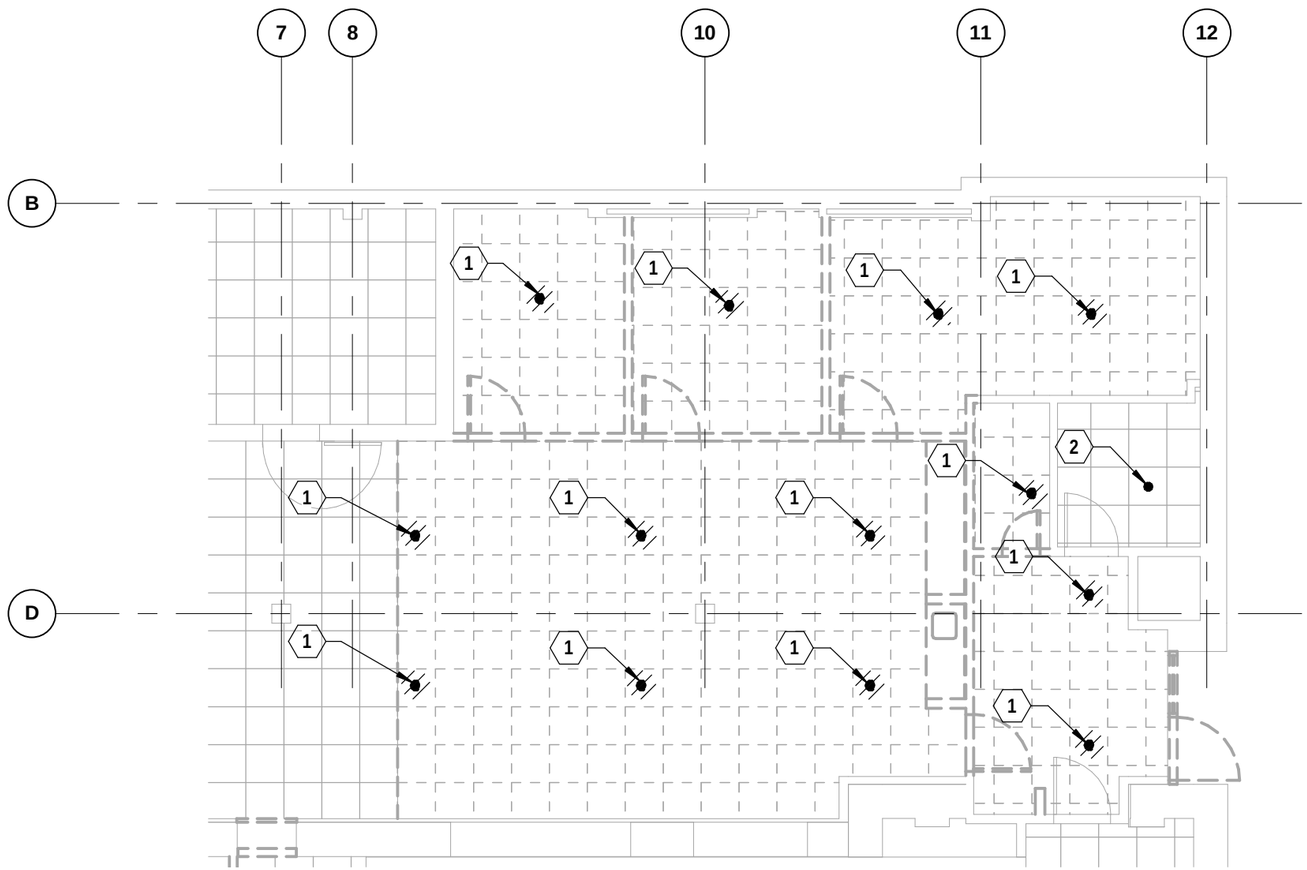
DRAWING TITLE
FIRE PROTECTION PARTIAL PLAN 1ST FLOOR

65% DOCUMENTS — JUNE 25, 2010

DRAWING NO. **F-100** REV. A

KEYNOTES

1. EXISTING SPRINKLER HEAD TO BE REMOVED
2. EXISTING SPRINKLER HEAD TO REMAIN



FIRE PROTECTION - DEMOLITION PARTIAL PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

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6/24/2010 1:45:56 PM

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D

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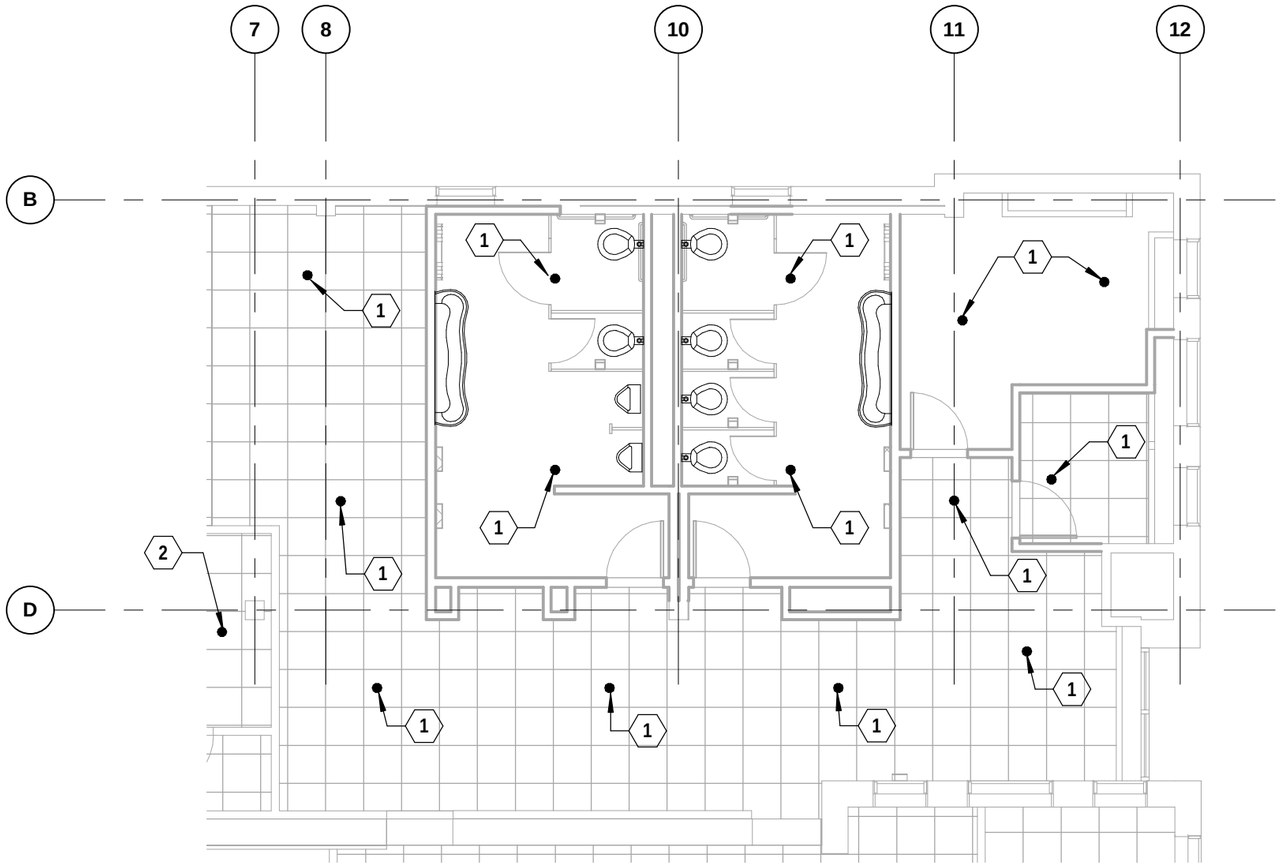
DRAWING TITLE
FIRE PROTECTION DEMO PARTIAL PLAN 1ST FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. FD-100 | REV. A

KEYNOTES

1. NEW SPRINKLER HEAD TO BE ADDED
2. EXISTING SPRINKLER HEAD



FIRE PROTECTION - PARTIAL PLAN - 2ND FLOOR

SCALE: 1/8" = 1'-0"

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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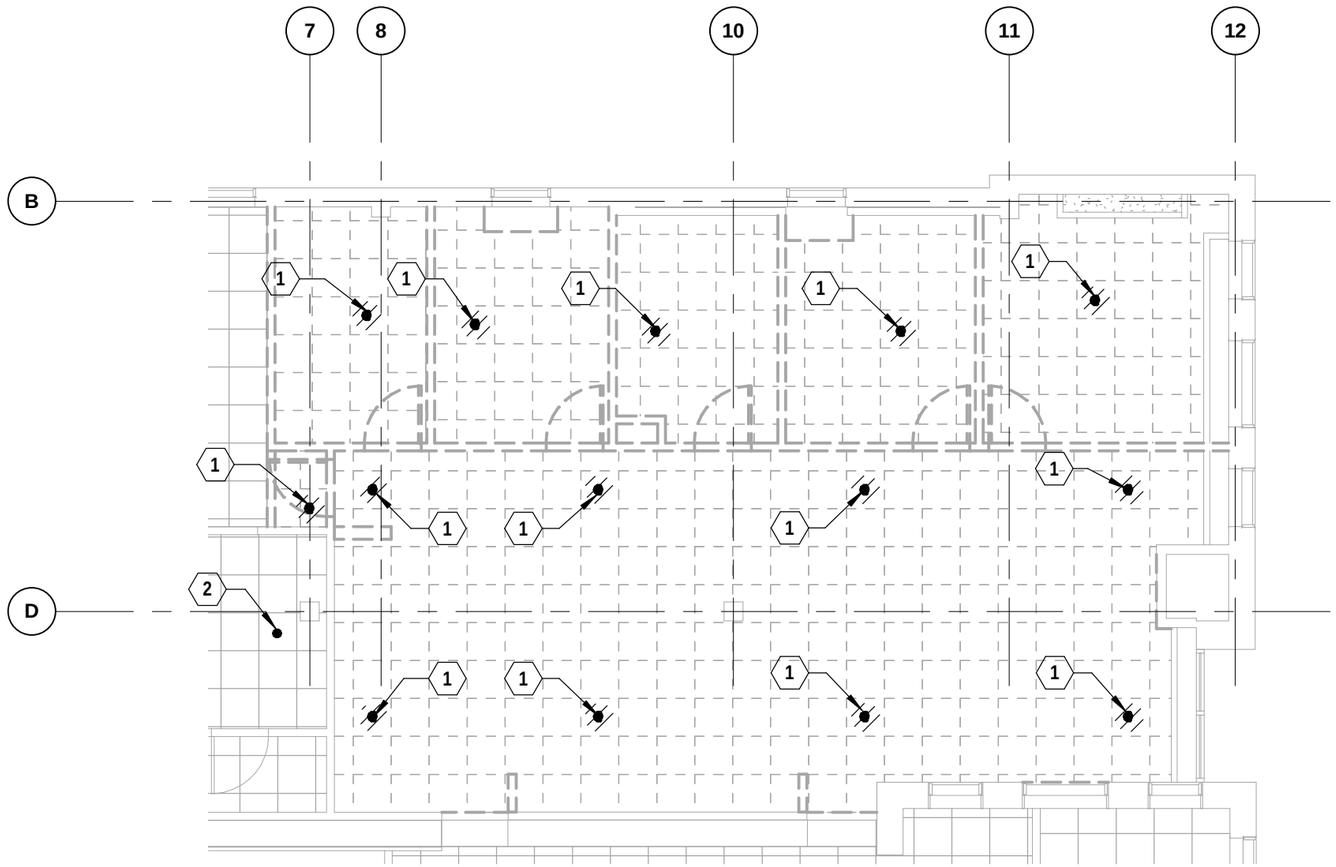
DRAWING TITLE
FIRE PROTECTION PARTIAL PLAN 2ND FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **F-101** REV. A

KEYNOTES

1. EXISTING SPRINKLER HEAD TO BE REMOVED
2. EXISTING SPRINKLER HEAD TO REMAIN



FIRE PROTECTION - DEMOLITION PARTIAL PLAN - 2ND FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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DRAWING TITLE
FIRE PROTECTION DEMO PARTIAL PLAN 2ND FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **FD-101** REV. A

LEGEND

(SAN)	EXISTING SANITARY PIPING (BELOW FLOOR OR GRADE)
SAN	NEW SANITARY PIPING (ABOVE FLOOR OR GRADE)
SAN	NEW SANITARY PIPING (BELOW FLOOR OR GRADE)
	NEW VENT PIPING
	NEW DOMESTIC COLD WATER PIPING
	NEW DOMESTIC HOT WATER PIPING
	EXISTING DOMESTIC COLD WATER PIPING
	EXISTING PIPING TO BE REMOVED

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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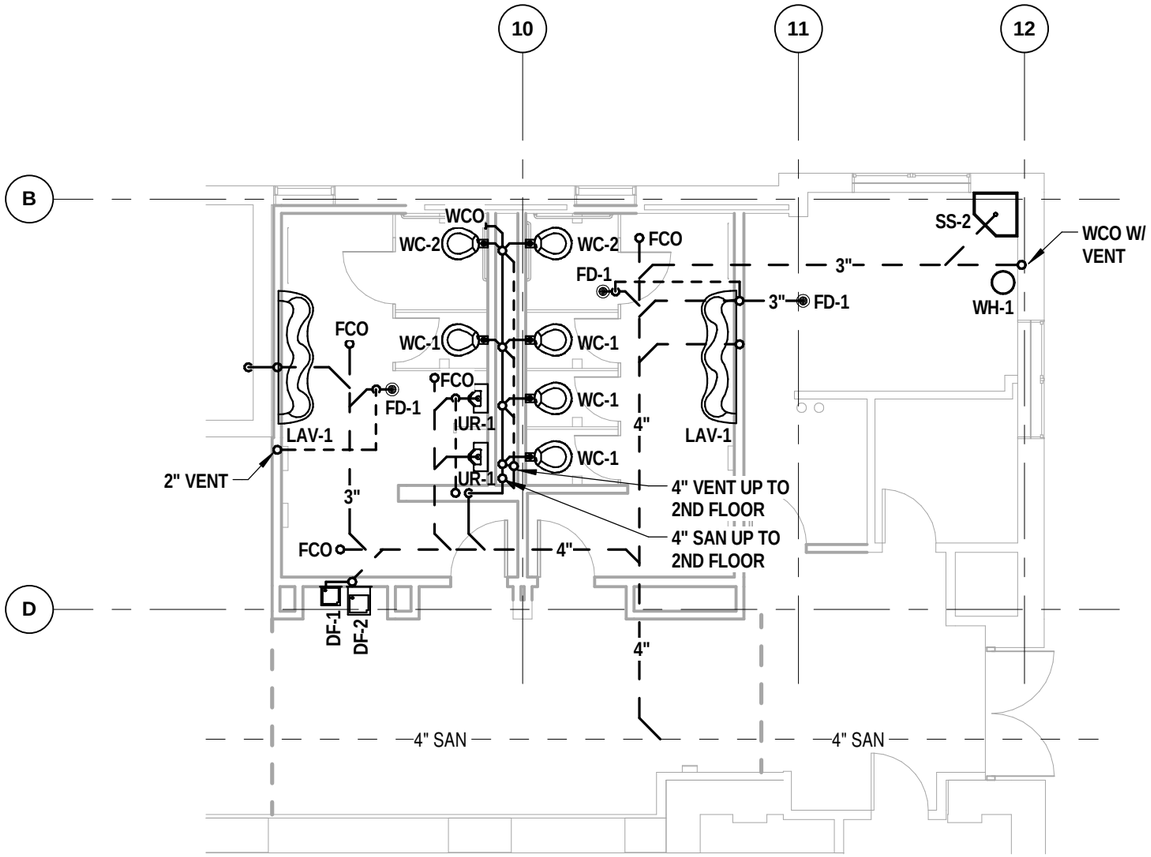
VIA CONTRACT NO.

DRAWING TITLE: PLUMBING NOTES & LEGEND

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. P-000

REV. A



PLUMBING - SANITARY PARTIAL PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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6/24/2010 1:52:13 PM

VIA prímo

WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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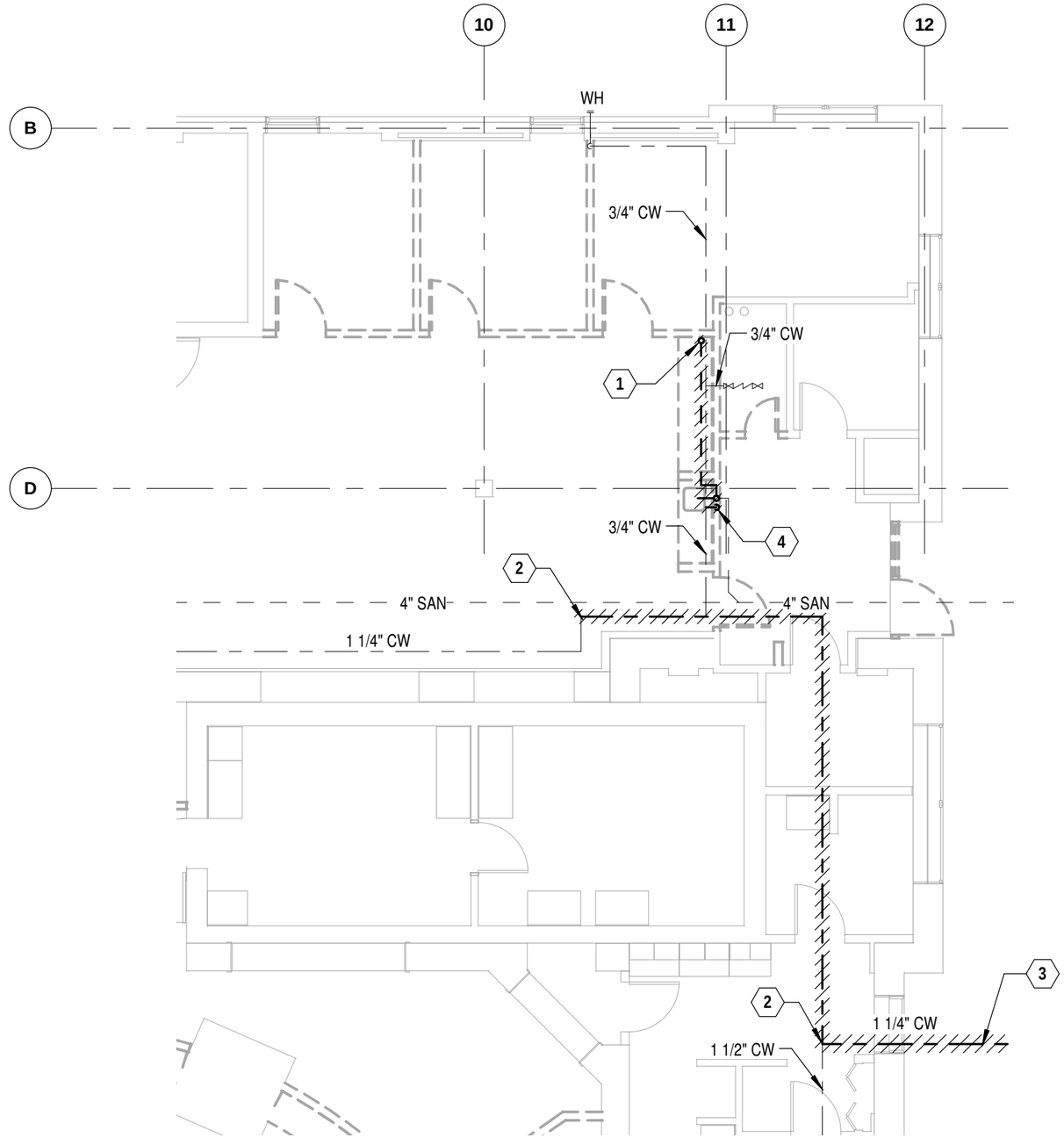
DRAWING TITLE
PLUMBING SANITARY PARTIAL PLAN 1ST FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **P-200** REV. A



KEYNOTES

1. REMOVE EXISTING 1 1/2" VENT PIPE UP TO 12" BELOW ROOF & CAP OFF
2. REMOVE EXISTING 1 1/4" CW PIPE TO POINT SHOWN
3. REMOVE EXISTING 1 1/2" CW PIPE SEE CIVIL DWG. FOR CONTINUATION
4. REMOVE EXISTING SANITARY TO FLOOR, CAP OFF & ABANDON EXISTING SANITARY PIPE IN PLACE

PLUMBING - DEMOLITION PARTIAL PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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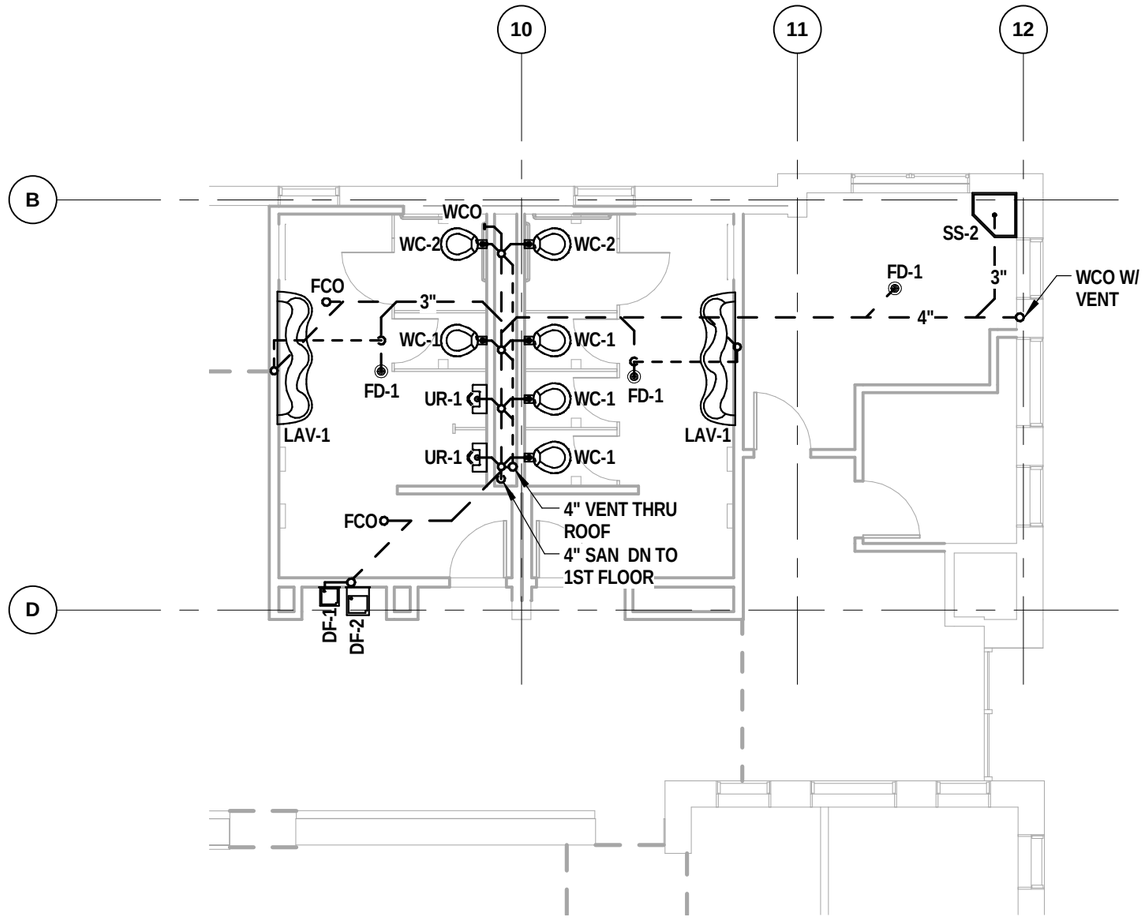
DRAWING TITLE
PLUMBING DEMOLITION PARTIAL PLAN 1ST FLOOR

65% DOCUMENTS — JUNE 25, 2010

DRAWING NO. **PD-200** REV. A



PLUMBING - SANITARY PARTIAL PLAN - 2ND FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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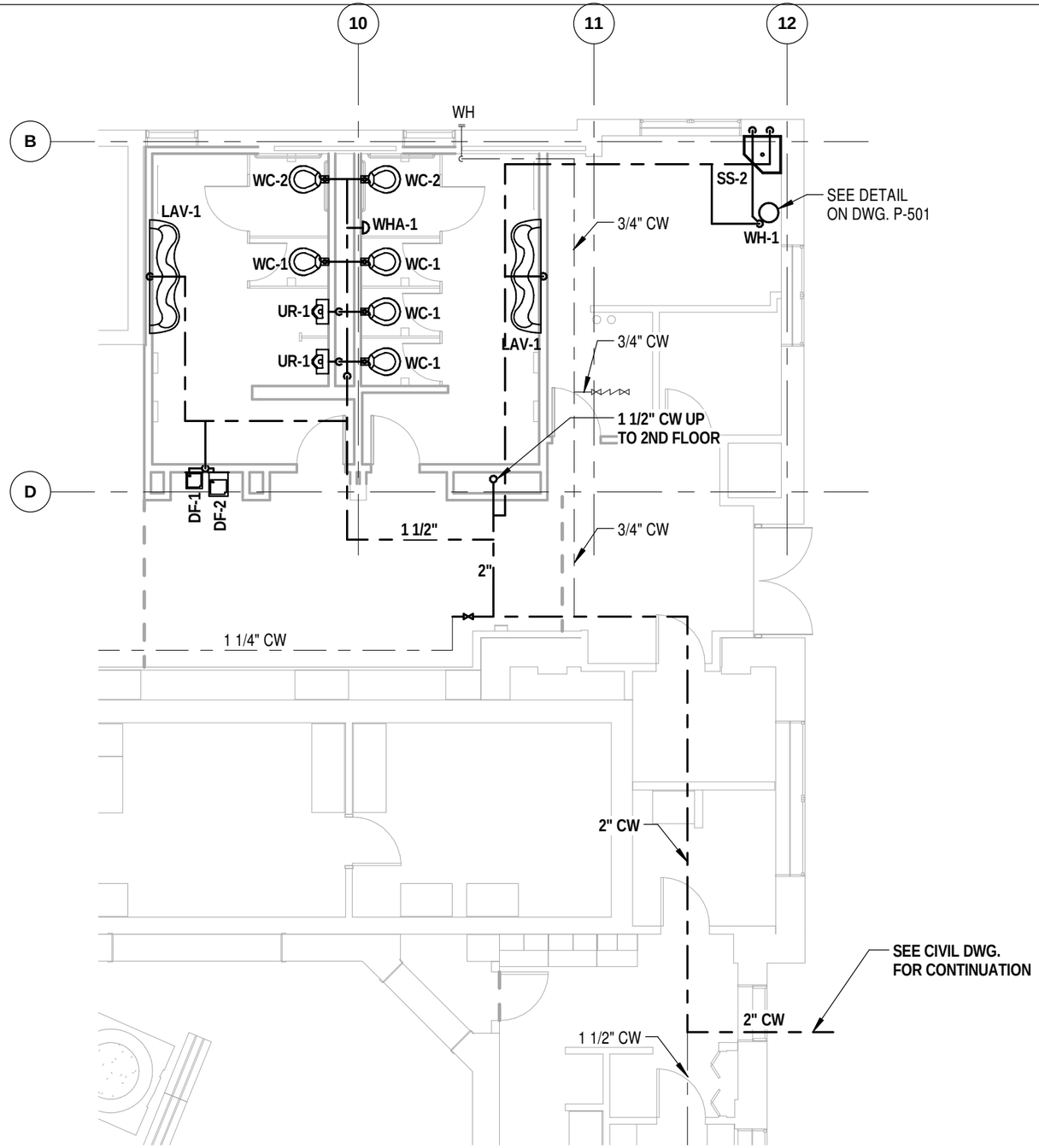
DRAWING TITLE
PLUMBING SANITARY PARTIAL PLAN 2ND FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **P-201** REV. A



PLUMBING - DOMESTIC WATER PARTIAL PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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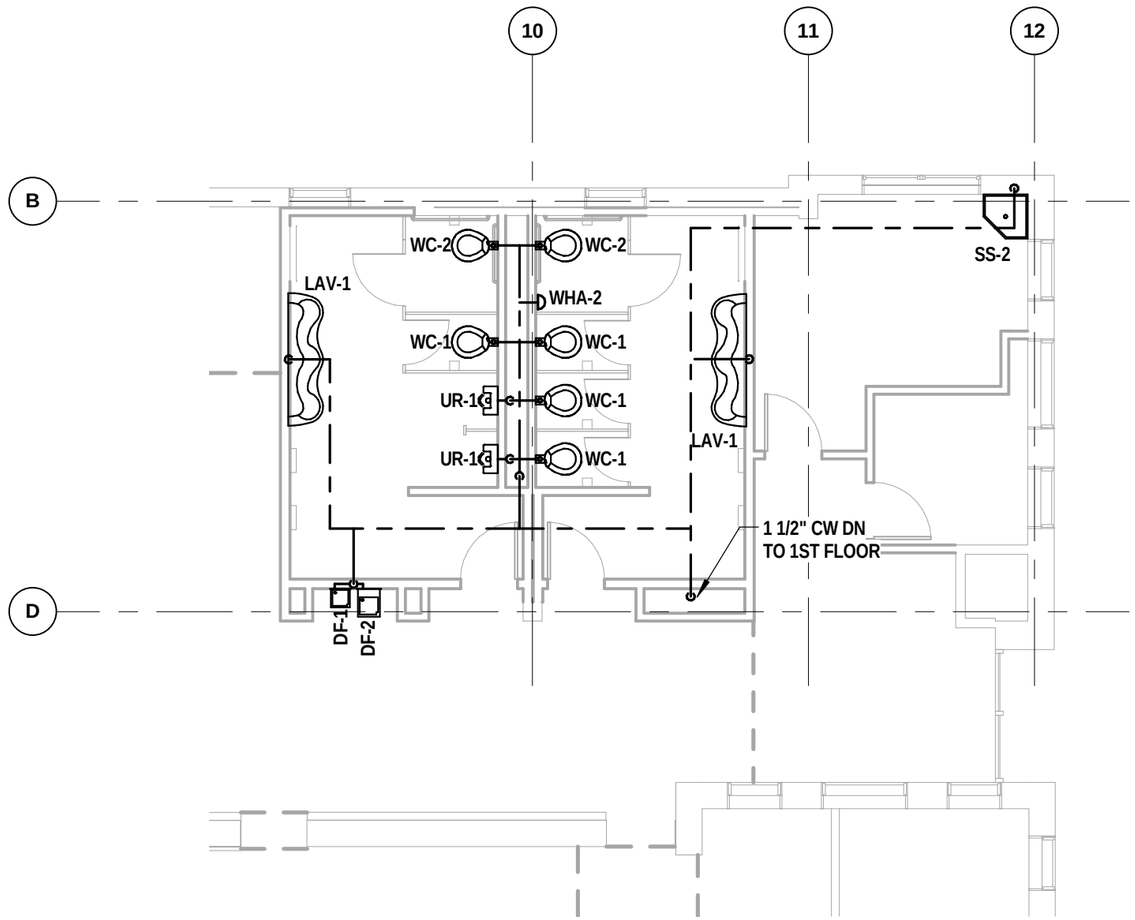
DRAWING TITLE
PLUMBING DW PARTIAL PLAN 1ST FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **P-202** REV. A



PLUMBING - DOMESTIC WATER PARTIAL PLAN - 2ND FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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6/24/2010 1:52:15 PM

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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DRAWING TITLE
PLUMBING DW PARTIAL PLAN 2ND FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **P-203** REV. A

PLUMBING FIXTURE SCHEDULE

FIXTURE	FIXTURE NO.	DESCRIPTION	SAN SIZE	CW SIZE	HW SIZE	QTY	REMARKS
DRINKING FOUNTAIN	DF-1		1 1/4"	3/8"	-	2	
DRINKING FOUNTAIN	DF-2		2"	3/8"	-	2	
FLOOR DRAIN	FD-1		3"	-	-	6	
LAVATORY	LAV-1	EXPRESS LAVATORY SYSTEM - MG SERIES	1 1/2"	1/2"	1/2"	4	
SERVICE SINK	SS-2		2"	1/2"	1/2"	2	
URINAL	UR-1		2"	3/4"	-	6	
WATER CLOSET	WC-1		4"	1"	-	8	
WATER CLOSET	WC-2		4"	1"	-	4	

ELECTRIC WATER HEATER SCHEDULE

MARK	LOCATION	RECOVERY RATE	STORAGE CAPACITY	WATTS	VOLT	PH	HZ	MANUFACTURER	MODEL NO.	REMARKS
WH-1		0	6.0 gal	1500 W	120 V	1	60 Hz	A. O. SMITH	DEL-6	

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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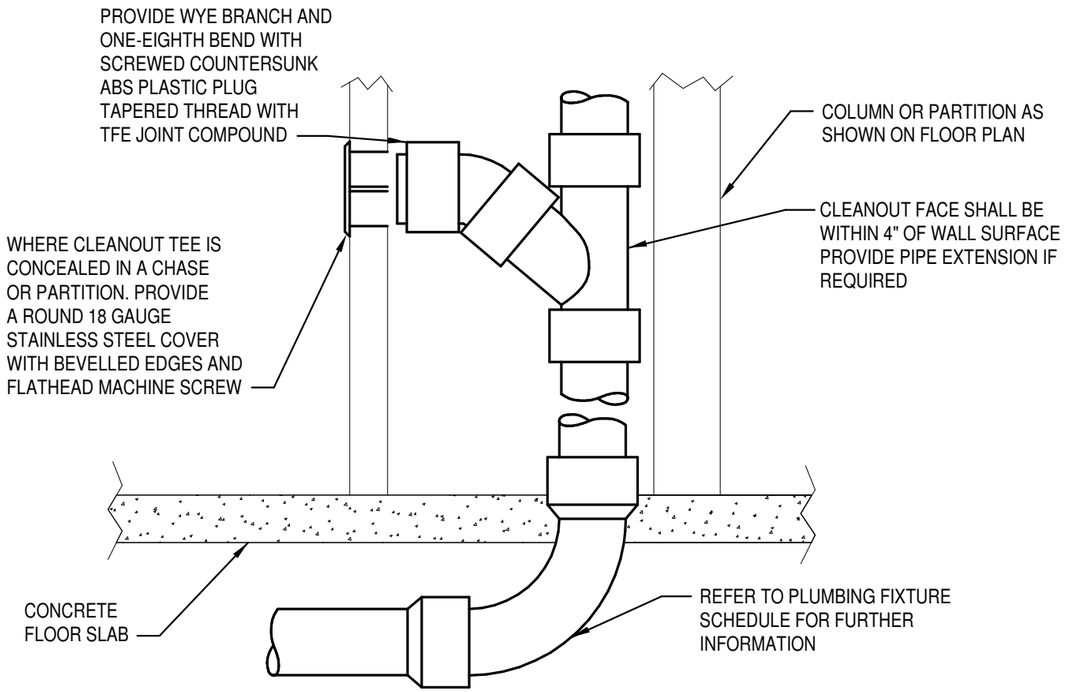
DRAWING TITLE
PLUMBING SCHEDULES

65% DOCUMENTS | JUNE 25, 2010

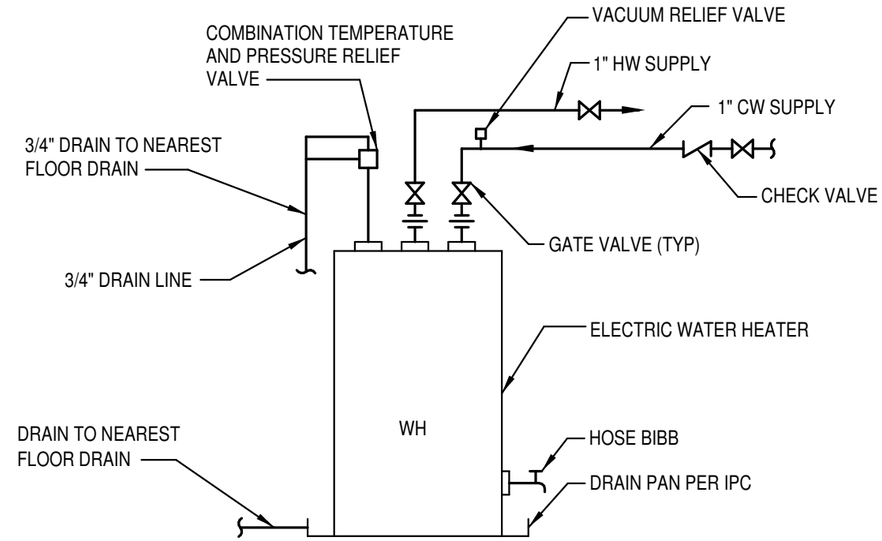
DRAWING NO. **P-500** REV. A



NOTE:
PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN 4' OF FLOOR. CONSULT LOCAL CODES FOR OTHER WCO REQUIREMENTS.

WALL CLEANOUT DETAIL

SCALE: NTS



WATER HEATER DETAIL

SCALE: NTS

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
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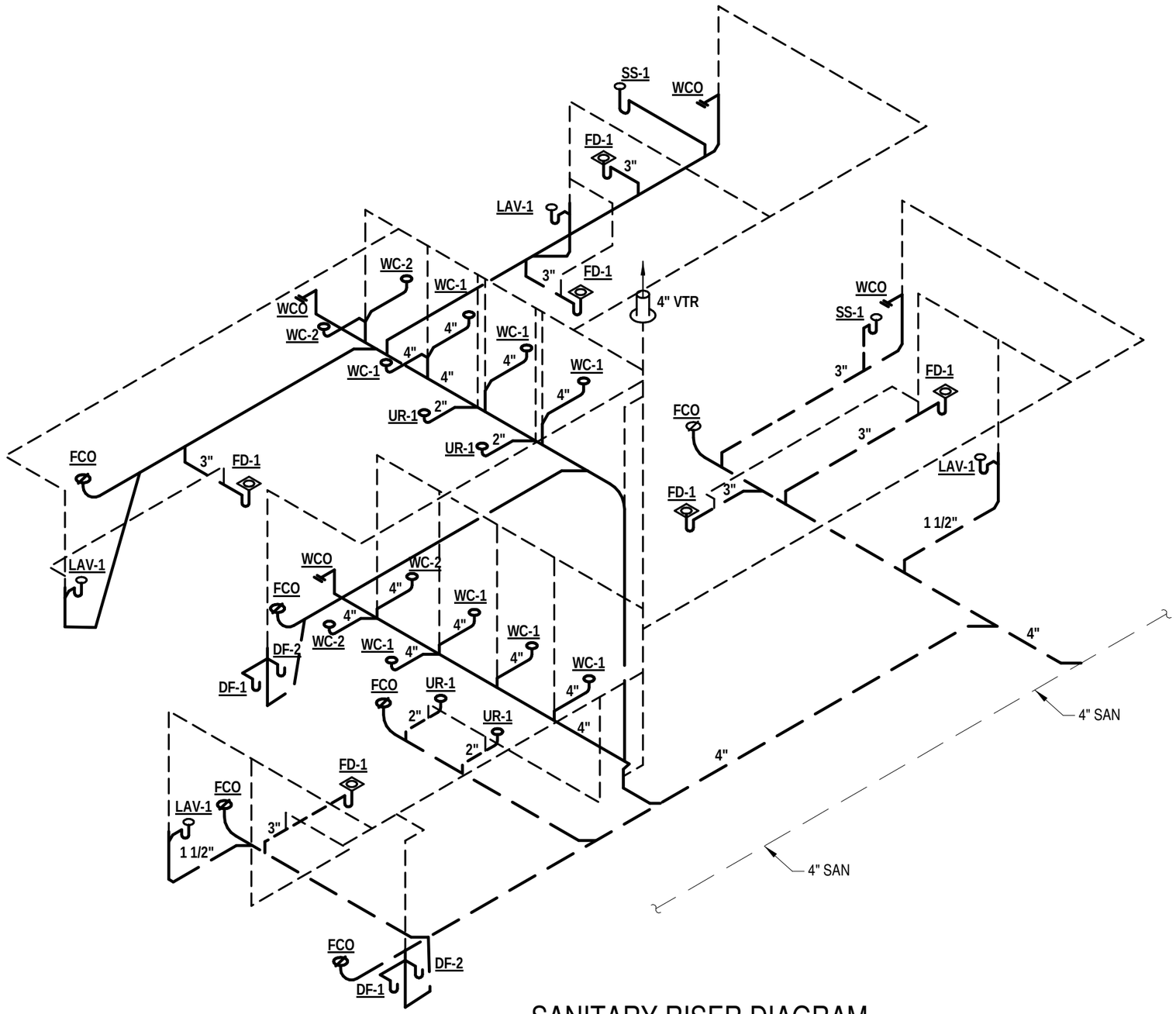
DRAWING TITLE: PLUMBING DETAILS
65% DOCUMENTS | JUNE 25, 2010
DRAWING NO. P-501
REV. A



SANITARY RISER DIAGRAM

SCALE: NTS

SEAL

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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PARSONS NO. 445738
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DRAWING TITLE
PLUMBING SANITARY RISER DIAGRAMS

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **P-700** REV. A

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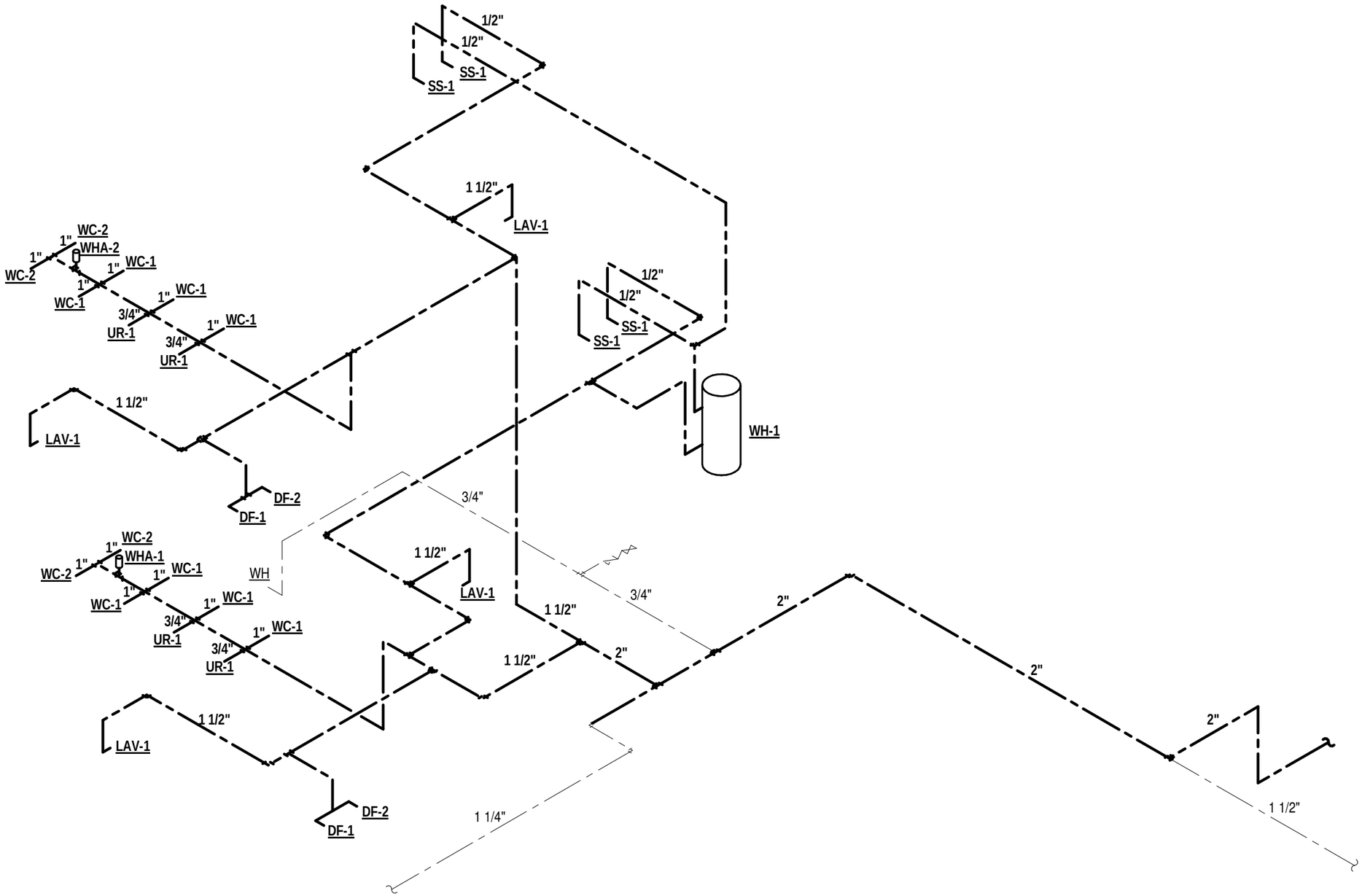

DOMESTIC WATER RISER DIAGRAM

SCALE: NTS

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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DRAWING TITLE
PLUMBING DOMESTIC WATER RISER DIAGRAM

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **P-701** REV. A

LEGEND:

	NEW DUCTWORK/ EQUIPMENT
	EXISTING DUCTWORK/ EQUIPMENT TO BE REMOVED
	EXISTING DUCTWORK/ EQUIPMENT TO REMAIN
	CEILING SUPPLY DIFFUSER
	CEILING RETURN GRILLE
	CEILING EXHAUST GRILLE
	FLEXIBLE DUCTWORK
X / CFM	TAG NUMBER AIR QUANTITY
20"x12"	RECTANGULAR DUCT; INSIDE CLEAR DIMENSIONS
12"Ø	ROUND DUCT

ABBREVIATIONS:

HP 1-4	HEAT PUMP & NUMBER
EF-1	EXHAUST FAN & NUMBER
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
R/A	RETURN AIR
S/A	SUPPLY AIR
CFM	CUBIC FEET PER MINUTE
E/A	EXHAUST AIR

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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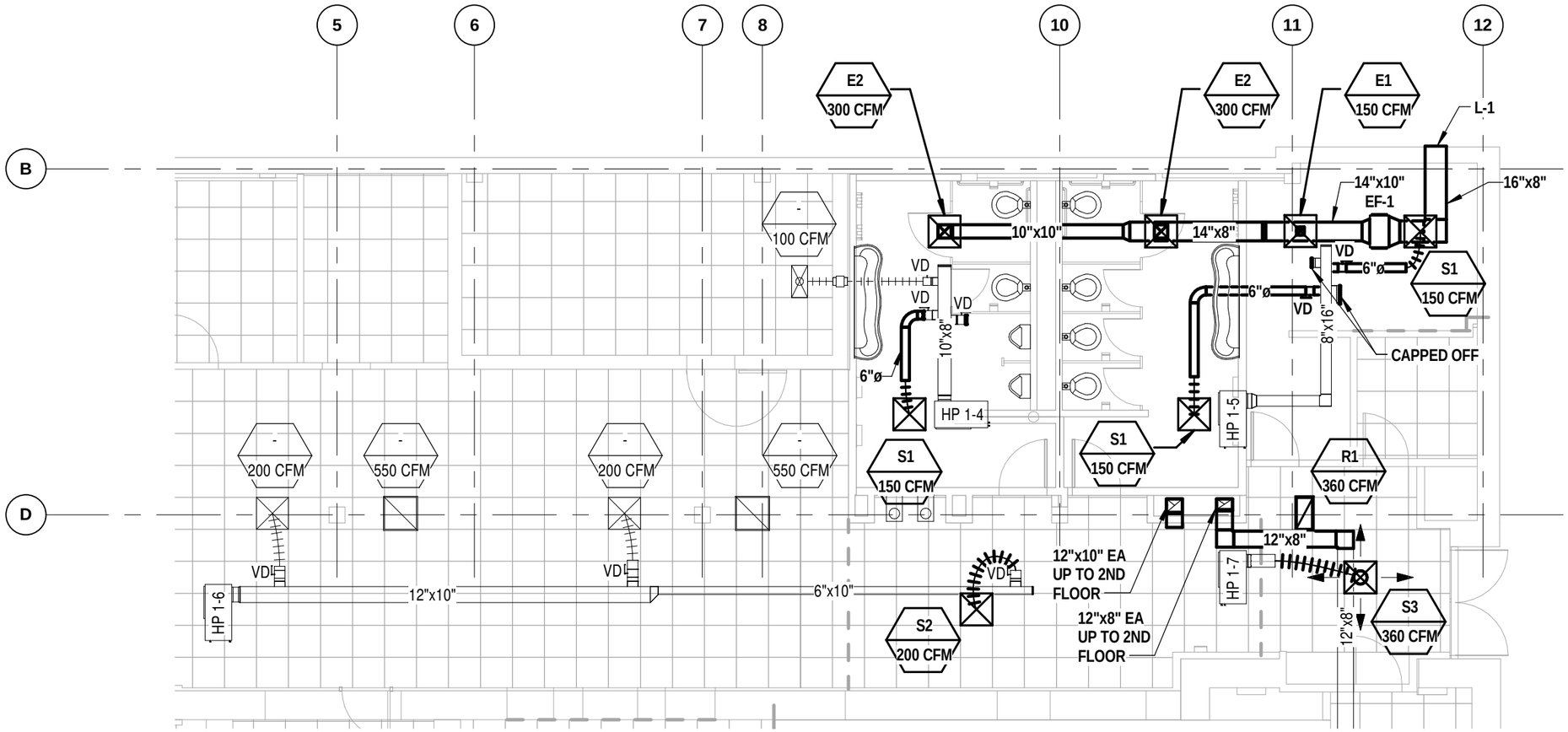
PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
HVAC NOTES & LEGEND

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **H-000** REV. A



HVAC - PARTIAL PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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6/24/2010 1:48:43 PM

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	PLC	RS	JB

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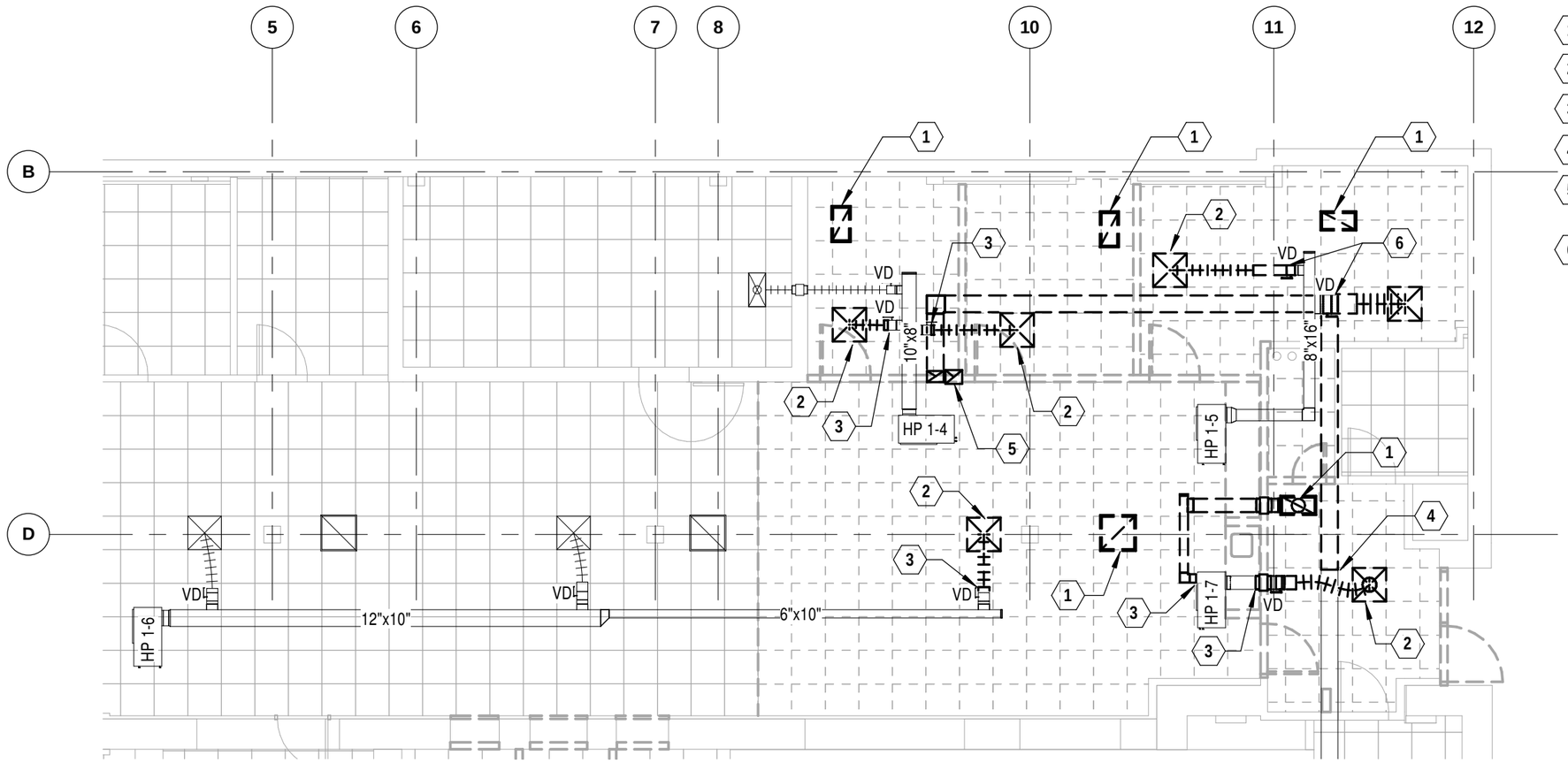
PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
HVAC PARTIAL PLAN 1ST FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **H-100** REV. A



KEYNOTES

1. EXISTING RETURN GRILLES TO BE REMOVED
2. EXISTING SUPPLY GRILLES TO BE REMOVED
3. EXISTING DUCTWORK, ETC. TO BE REMOVED TO POINT SHOWN
4. EXISTING EXHAUST DUCT TO BE REMOVED TO EXISTING VD
5. EXISTING EXHAUST DUCTS TO BE REMOVED UP TO 2ND FLOOR
6. EXISTING DUCTWORK, ETC TO BE REMOVED & CAPPED OFF

HVAC - DEMOLITION PARTIAL PLAN - 1ST FLOOR

SCALE: 1/8" = 1'-0"

SEAL

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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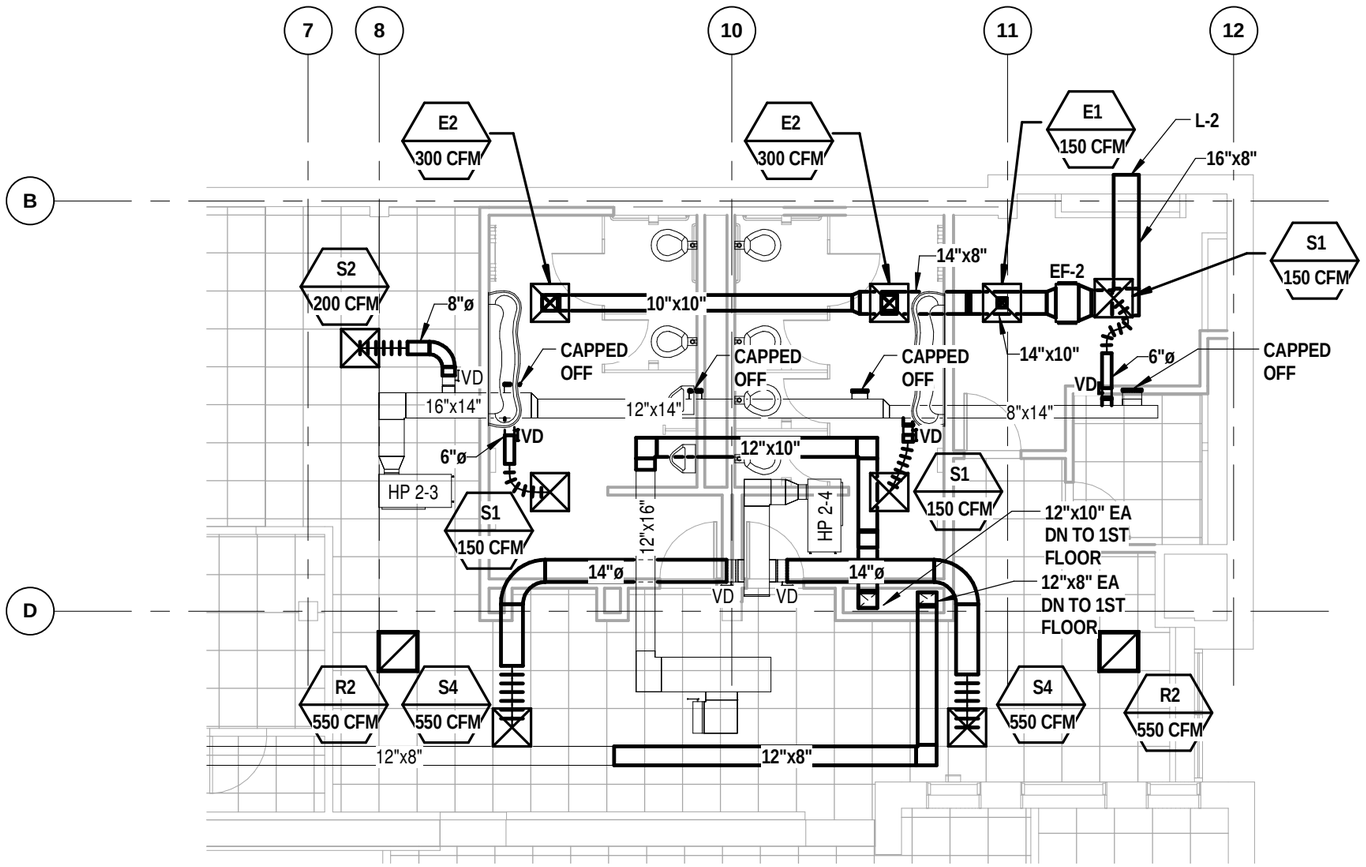
HVAC DEMOLITION PARTIAL PLAN 1ST FLOOR

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **HD-100** REV. A



HVAC - PARTIAL PLAN - 2ND FLOOR

SCALE: 1/8" = 1'-0"

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D

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DRAWING TITLE
HVAC PARTIAL PLAN 2ND FLOOR

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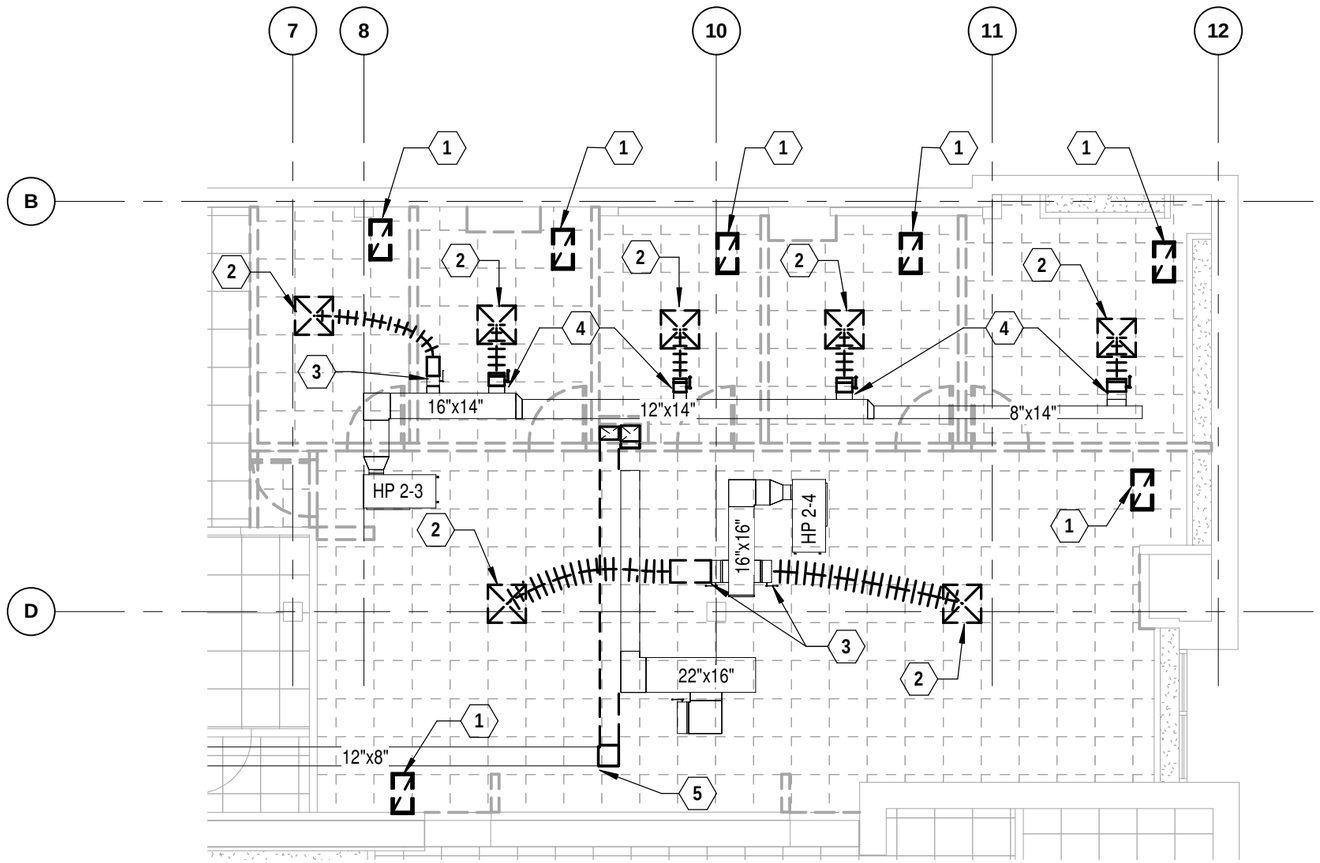
DRAWING NO. **H-101** | REV. A

KEYNOTES

1. EXISTING RETURN GRILLES TO BE REMOVED
2. EXISTING SUPPLY GRILLES TO BE REMOVED
3. EXISTING DUCTWORK, ETC. TO BE REMOVED TO EXISTING VD
4. EXISTING DUCTWORK, ETC TO BE REMOVED & CAPPED OFF
5. EXISTING EXHAUST DUCT TO BE REMOVED TO POINT SHOWN



HVAC - DEMOLITION PARTIAL PLAN - 2ND FLOOR

SCALE: 1/8" = 1'-0"

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DRAWING TITLE
HVAC DEMOLITION PARTIAL PLAN 2ND FLOOR

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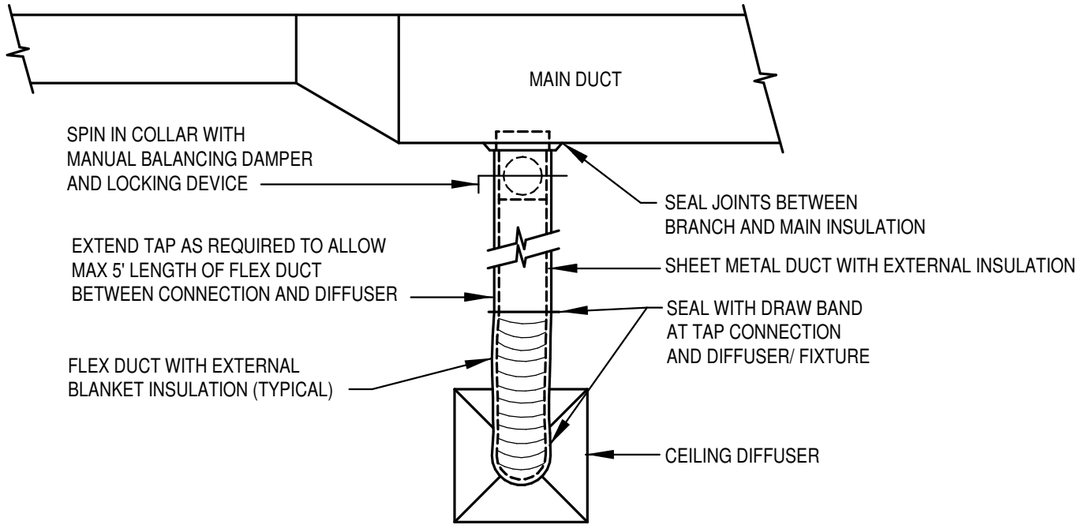
DRAWING NO. **HD-101** REV. A



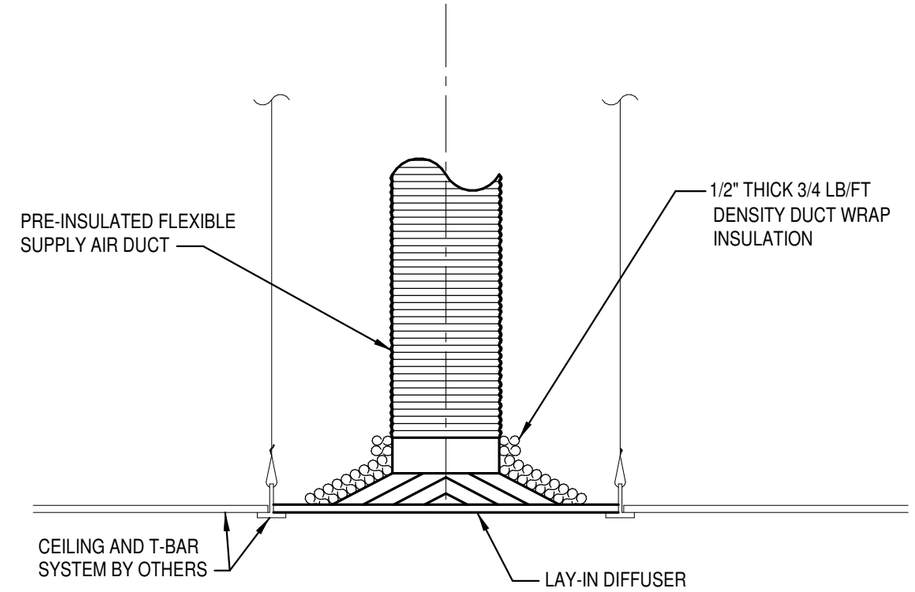
CONNECTIONS BETWEEN MAIN DUCT & DIFFUSERS

NOTES:

1. TYPICAL CONNECTIONS BETWEEN DUCT AND CEILING OR SLOT DIFFUSERS AND SINGLE OR DOUBLE SIDED SADDLE BOOT LIGHT FIXTURES AS SHOWN ON PLANS OR INDICATED IN SCHEDULE
2. ONLY ONE 90° TURN ALLOWED IN FLEX DUCT WITH TURN R/D > 1.0; DUCT MUST BE PROPERLY SUPPORTED TO PREVENT KINKING
3. IF ADDITIONAL 90° TURNS ARE REQUIRED TO CONNECT OUTLET TO DIFFUSER, EXTEND TAP AND PROVIDE EXTERNALLY INSULATED ROUND DUCT ELBOWS AS REQUIRED.

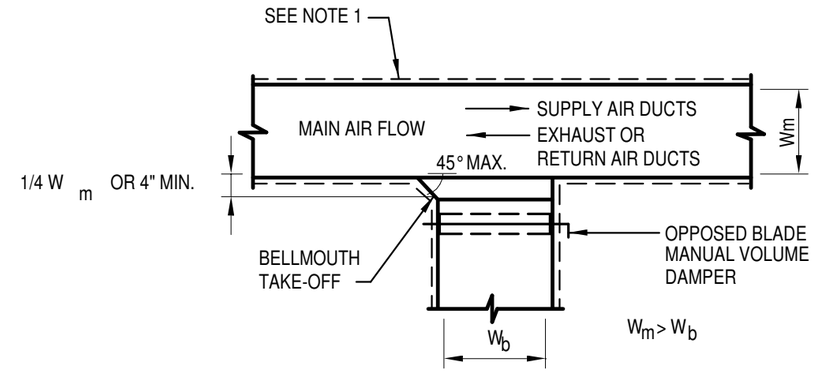
MAIN DUCT & DIFFUSER DETAIL

SCALE: NTS



LAY-IN DIFFUSER DETAIL

SCALE: NTS



1. ALL INSULATION SHALL BE APPLIED EXTERNALLY TO DUCTWORK. INTERNAL INSULATION SHALL NOT BE PERMITTED.

DUCT MAIN & TAKEOFF DETAIL

SCALE: NTS

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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DRAWING TITLE: HVAC DETAILS

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. H-400 | REV. A

EXHAUST FAN SCHEDULE

MARK	SERVICES	LOCATION	CFM	SP	AMPS	WATTS	RPM	VOLTS	PH	HZ	QUANTITY	MANUFACTURER	MODEL NO.	REMARKS
EF-1			750 CFM	0.25 in-wg	4.87	328	950	120 V		60	1	GREENHECK	CSP-A900	
EF-2			750 CFM	0.25 in-wg	4.87	328	950	120 V		60	1	GREENHECK	CSP-A900	

EXHAUST GRILLE/REGISTER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	NECK SIZE	PANEL SIZE	CFM	FRAME STYLE	REMARKS
E1	TITUS		6"x6"	24"x24"	150 CFM	SURFACE MOUNT	
E2	TITUS		10"x10"	24"x24"	300 CFM	SURFACE MOUNT	

SUPPLY GRILLE/REGISTER/DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	NECK SIZE	CFM	PANEL SIZE	FRAME STYLE	REMARKS
S1	TITUS		6"	150 CFM	24"x24"	SURFACE MOUNT	
S2	TITUS		8"	200 CFM	24"x24"	LAY-IN	
S3	TITUS		10"	360 CFM	24"x24"	LAY-IN	
S4	TITUS		14"	550 CFM	24"x24"	LAY-IN	

RETURN GRILLE/REGISTER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	SIZE	CFM	FRAME STYLE	REMARKS
R1	TITUS		24"x12"	360 CFM	LAY-IN	
R2	TITUS		24"x24"	550 CFM	LAY-IN	

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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DRAWING TITLE
HVAC SCHEDULES

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **H-900** REV. A

SYMBOLS & ABBREVIATIONS:

- EXISTING
- EXISTING, BELOW GRADE
- NEW
- NEW, BELOW GRADE
- FUTURE/TEMPORARY
- EQUIPMENT OUTLINE (NEW)
- EQUIPMENT OUTLINE (EXISTING)
- DEMOLITION
- GROUND
- FRAME SIZE / NEMA TYPE — NON-FUSED DISCONNECT SWITCH
- FRAME SIZE / FUSE TYPE / NEMA TYPE — FUSED DISCONNECT SWITCH (PRIMARY SYMBOL)
- $x — SINGLE POLE SWITCH-120V, 20A (X DENOTES SWITCH CIRCUIT)
- $3x — 3-WAY SWITCH-120V, 20A (X DENOTES SWITCH CIRCUIT)
- $4x — 4-WAY SWITCH-120V, 20A (X DENOTES SWITCH CIRCUIT)
- $Px — SINGLE POLE PILOT SWITCH-120V, 20A (X DENOTES SWITCH CIRCUIT)
- $M — MANUAL MOTOR STARTER HP RATED
- POWER PANEL BOARD
- UTILITY METER (WITH METER BASE)
- J — JUNCTION BOX
- P — PULL BOX
- A/b — DOWNLIGHT RECESSED FIXTURE (A DENOTES FIXTURE TYPE) (b DENOTES SWITCH CIRCUIT)
- A/b — DOWNLIGHT RECESSED FIXTURE EMERGENCY BATTERY PACK (A DENOTES FIXTURE TYPE) (b DENOTES SWITCH CIRCUIT)
- A/b — DOWNLIGHT SURFACE MOUNTED FIXTURE EMERGENCY BATTERY PACK (A DENOTES FIXTURE TYPE) (b DENOTES SWITCH CIRCUIT)
- A/b — WALL MOUNTED FIXTURE (A DENOTES FIXTURE TYPE) (b DENOTES SWITCH CIRCUIT)
- A/b — SITE LIGHT, POLE MOUNTED (A DENOTES FIXTURE TYPE) (b DENOTES SWITCH CIRCUIT)
- EMERGENCY BATTERY PACK
- EXIT SIGN, SINGLE OR DOUBLE FACE, CEILING MOUNTED (ARROW DENOTES DIRECTION OF EGRESS)
- EXIT SIGN, SINGLE OR DOUBLE FACE, WALL MOUNTED (ARROW DENOTES DIRECTION OF EGRESS)
- PE — PHOTO CELL
- LC — LIGHTING CONTACTOR
- F1/NL/b — 2' X 2' FLUORESCENT FIXTURE (F1 DENOTES FIXTURE TYPE, PER DWG E-002) (b DENOTES SWITCH CIRCUIT) (ADD "NL" IF NIGHT LIGHT CIRCUIT)
- F1/NL/b — 2' X 2' FLUORESCENT FIXTURE SLASH DENOTES EMERGENCY BATTERY PACK
- F1/NL/b — 2' X 4' FLUORESCENT FIXTURE
- F1/NL/b — 2' X 4' FLUORESCENT FIXTURE SLASH DENOTES EMERGENCY BATTERY PACK
- F1/NL/b — 1' X 4' FLUORESCENT FIXTURE
- F1/NL/b — 1' X 4' FLUORESCENT FIXTURE SLASH DENOTES EMERGENCY BATTERY PACK
- F1/NL/b — 1' X 4' (OR INDICATED) FLUORESCENT FIXTURE, WALL MOUNTED
- F1/NL/b — 1' X 4' (OR INDICATED) FLUORESCENT FIXTURE, WALL MOUNTED SLASH DENOTES EMERGENCY BATTERY PACK
- F1/b — 1' X 4' (OR INDICATED) STRIP FLUORESCENT FIXTURE,
- DUPLEX RECEPTACLE (ADD "WP" IF WEATHER PROOF) (ADD "UC" IF ABOVE COUNTER) (ADD "GFCI" IF GROUND FAULT CURRENT INTERUPTR) (ADD "GP" IF GROUND FAULT CURRENT INTERUPTER PROTECTED)
- SINGLE RECEPTACLE
- SINGLE SPECIAL PURPOSE RECEPTACLE
- X in — MULTIOUTLET ASSEMBLY (WIREMOLD). ARROWS EXTEND TO LIMIT OF INSTALLATION. SYMBOL INDICATES TYPE OF OUTLET USED. (X INDICATES SPACING OF OUTLETS IN INCHES)
- TELEPHONE / DATA OUTLET, WALL MOUNTED
- I — INTERCOM. TELEPHONE
- TV — TELEVISION OUTLET
- MOTORIZED EQUIPMENT

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
GFCI	GROUND FAULT CURRENT INTERUPTER
GFI	GROUND FAULT INTERUPTER
GFP	GROUND FAULT PROTECTED
RGS	RIGID GALVANIZED STEEL
UC	DEVICE LOCATED 6" ABOVE COUNTER BACKSPLASH
10	KEYED NOTE - NUMBER AS NOTED

CIRCUITING:

- UNSWITCHED HOTS
- NEUTRAL
- SWITCHED HOTS (TRAVELERS)

CONTRACTOR SHALL RUN 1#12 GREEN GROUND WIRE PER CONDUIT.

- UNSWITCHED HOTS
- NEUTRAL
- SWITCHED HOTS (TRAVELERS)

LP3-6
- CIRCUIT/BREAKER NUMBER
- PANELBOARD

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED PER ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH STANDARDS AND ACCEPTED ENGINEERING AND CONSTRUCTION STANDARDS AND PRACTICES. THE LATEST AND MOST CURRENT UNIFORM AND/OR INTERNATIONAL CODES SHALL GOVERN THE INSTALLATION OF ELECTRICAL EQUIPMENT AND ACCESSORIES.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH THAT OF THE HVAC, PLUMBING,ETC. INSTALLATIONS FOR EXACT MOUNTING ARRANGEMENTS AND TO AVOID OBSTRUCTIONS.
3. NO SUBSTITUTIONS, OF SPECIFIED EQUIPMENT, WILL BE ACCEPTED BY THE ENGINEER WITHOUT THE PROPER "OR EQUAL" SPECIFICATIONS. PERMISSION FROM THE ENGINEER WILL BE REQUIRED FOR SUBSTITUTIONS.
4. ALL NEW OR UNUSED PENETRATIONS IN RATED WALLS,FLOORS OR ROOFS RESULTING FROM THIS PROJECT SHALL BE SEALED WITH THE APPROPRIATE FIRE SEALANT MATERIAL. THE CONTRACTOR SHALL ORDER THE MATERIALS DIRECTLY FROM AN AUTHORIZED DISTRIBUTOR OF FIRE SEALANT MATERIALS.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ELECTRICAL CONNECTIONS FROM LOAD TO FINAL OVERCURRENT DEVICE. FURNISH AND INSTALL CONDUIT, WIRE, FITTINGS & ASSOCIATED HARDWARE TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
6. CONDUIT AND WIRE SHALL BE 1/2"C, 2#12-1#12 GND. UNLESS OTHERWISE NOTED.
7. A SEPARATE EQUIPMENT GROUND CONDUCTOR SHALL BE PROVIDED IN ALL CIRCUITS.
8. SEAL ALL PENETRATIONS THROUGH EXTERIOR WALLS AND FOUNDATIONS. PROVIDE U.L. CLASSIFIED FIRE STOPPING BETWEEN SMOKE AND FIRE BARRIERS.
9. PROVIDE FISH LINE IN ALL EMPTY CONDUITS.
10. PROVIDE ADEQUATELY SIZED PULL & JUNCTION BOXES PER NEC.
11. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH, PIPING, HVAC AND EQUIPMENT LOCATIONS.

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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A	ISSUED FOR 65% REVIEW	06/25/10	BG	ECR	RH

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PARSONS NO. 445738
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DRAWING TITLE
ELECTRICAL SYMBOLS, ABBREV. & GENERAL NOTES

65% DOCUMENTS — JUNE 25, 2010

DRAWING NO. **E-001** REV. A

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	Input Watts	Notes
A	COLUMBIA	HC24-332G-LD39-S-3E120	2'X4' PARABOLIC GRID TROFFER	RECESSED	3-F32/T8	120V	96 W	
AE	COLUMBIA	HC24-332G-LD39-S-3E120-EL	2'X4' PARABOLIC GRID TROFFER W/ EMERGENCY BATTERY PACK	RECESSED	3-F32/T8	120V	96 W	
B	COLUMBIA	HC24-232G-LD39-S-3E120	2'X4' PARABOLIC GRID TROFFER	RECESSED	2-F32/T8	120V	80 W	
C	COLUMBIA	K-4-232-EU-CSWG4	SURFACE STRIP WITH WIRE GUARD	SURFACE	2-F32/T8	120V	64 W	
D	PRESCOLITE	CFR826UEB-ST572	8" COMPACT FLOURESCENT DOWNLIGHT	RECESSED	2-26W QUAD	120V	52 W	
DE	PRESCOLITE	CFR826UEB-ST572-EM	8" COMPACT FLOURESCENT DOWNLIGHT W/ EMERGENCY BATTERY PACK	RECESSED	2-26W QUAD	120V	52 W	
H2	LITHONIA	KSF2-400M-R4-208SP12-DD8	AREA FIXTURE, TYPE IV DISTRIBUTION, UL LISTED WET LOCATION	30' POLE P2	1-1000W MH	208V	1000 W	
J	US ARCHITECTURAL LIGHTING	VNDL-TYPE II-400MH-208-PTA-SLM	VANDAL RESISTANT POST TOP UNIT WITH PRISMATIC REFRACTOR LENS, UL WET LOCATION LISTED	12' POLE P1	1-400W MH	208V	400 W	
P1	ANTIQUE STREET LAMPS	PX-GT13-12-S3-SILVER	12 FT. CAST ALUMINUM STREET POLE W/ TYPE 'J' FIXTURE, MATCH FIXTURE FINISH	POLE BASE	N/A	N/A		REFER TO DRAWINGS FOR FIXTURE MOUNTING ARRANGEMENT, COORDINATE W/ MFG. BOLT MTG. TEMPLATE
P2	LITHONIA	SSA-30-6J	30' SQUARE STRAIGHT ALUMINUM W/ TYPE 'H2' FIXTURE, MATCH FIXTURE FINISH	POLE BASE	N/A	N/A		REFER TO DRAWINGS FOR FIXTURE MOUNTING ARRANGEMENT, COORDINATE W/ MFG. BOLT MTG. TEMPLATE
X	DUAL-LITE	LECSRNE	LED EXIT LIGHT WITH EMERGENCY BATTERY PACK	SURFACE CEILING OR WALL MOUNTED AS SHOWN ON PLANS	LED	120		

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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PARSONS NO. 445738
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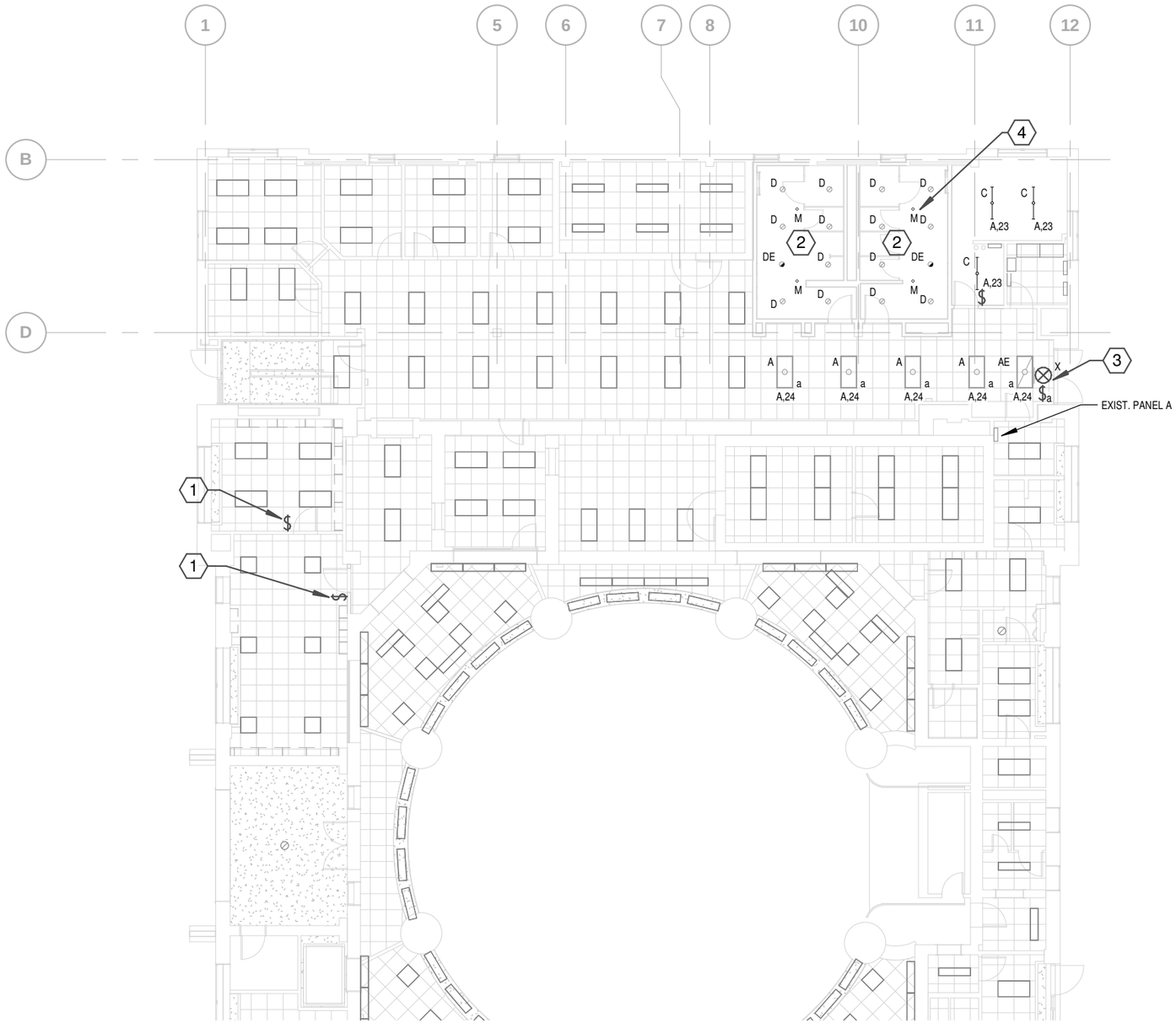
DRAWING TITLE
ELECTRICAL LIGHT FIXTURE SCHEDULE

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **E-002** REV. A



KEYNOTE:

1. EXISTING LIGHT SWITCH RELOCATED TO THIS LOCATION. REWIRE SWITCH TO CONTROL EXISTING FIXTURES IN THE ROOM.
2. CIRCUIT ROOM TO PANEL A, CKT. 23 UNLESS OTHERWISE NOTED.
3. CIRCUIT TO NEAREST EXIT LIGHT CIRCUIT IN THE AREA. FURNISH & INSTALL CONDUIT AND WIRE AS REQUIRED.
4. OCCUPANCY SENSOR WATTSTOPPER DUAL TECHNOLOGY DT-355 TYPE OR APPROVED EQUAL.

GENERAL NOTES:

1. REFER TO DWG. E-002 FOR ELECTRICAL LIGHT FIXTURE SCHEDULE.
2. UTILIZE 1/2"C, 2#12-1#12 GND. UNLESS OTHERWISE NOTED.

FIRST FLOOR PLAN - LIGHTING

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

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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PARSONS NO. 445738
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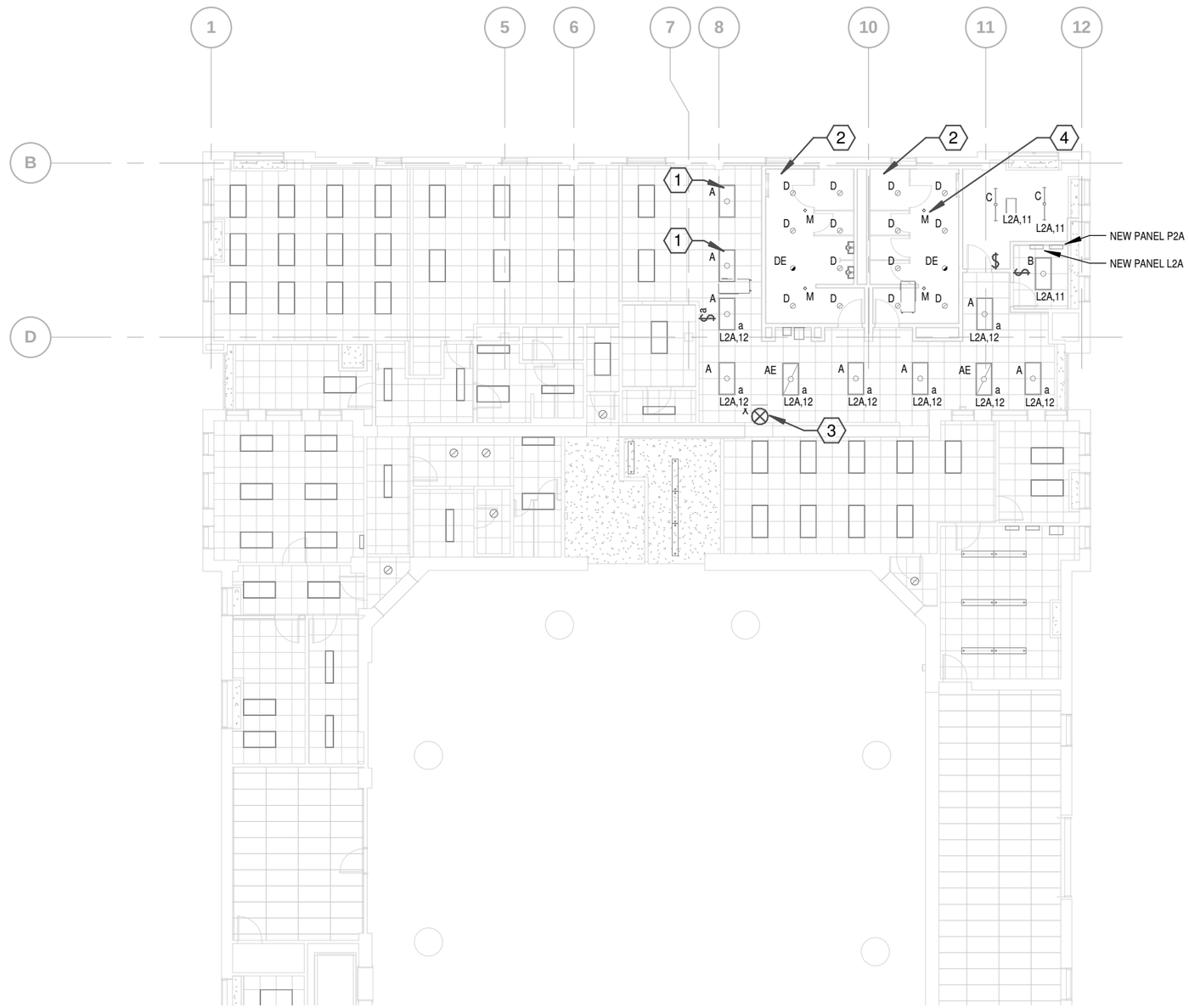
DRAWING TITLE
ELECTRICAL FIRST FLOOR PLAN LIGHTING

65% DOCUMENTS — JUNE 25, 2010

DRAWING NO. **E-101** REV. A



KEYNOTE:

1. CIRCUIT NEW LIGHT FIXTURES TO EXISTING FUTURE LEASE SPACE LIGHTING AND SWITCH CIRCUIT. FURNISH & INSTALL CONDUIT & WIRING AS REQUIRED.
2. CIRCUIT ROOM TO PANEL L2A, CKT. 11 UNLESS OTHERWISE NOTED.
3. CIRCUIT TO NEAREST EXIT LIGHT CIRCUIT IN THE AREA. FURNISH & INSTALL CONDUIT AND WIRE AS REQUIRED.
4. OCCUPANCY SENSOR WATTSTOPPER DUAL TECHNOLOGY DT-355 TYPE OR APPROVED EQUAL.

GENERAL NOTES:

1. REFER TO DWG. E-002 FOR ELECTRICAL LIGHT FIXTURE SCHEDULE.
2. UTILIZE 1/2"C, 2#12-1#12 GND. UNLESS OTHERWISE NOTED.

SECOND FLOOR PLAN - LIGHTING

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

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DRAWING TITLE
ELECTRICAL SECOND FLOOR PLAN LIGHTING

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DRAWING NO. **E-102** REV. A

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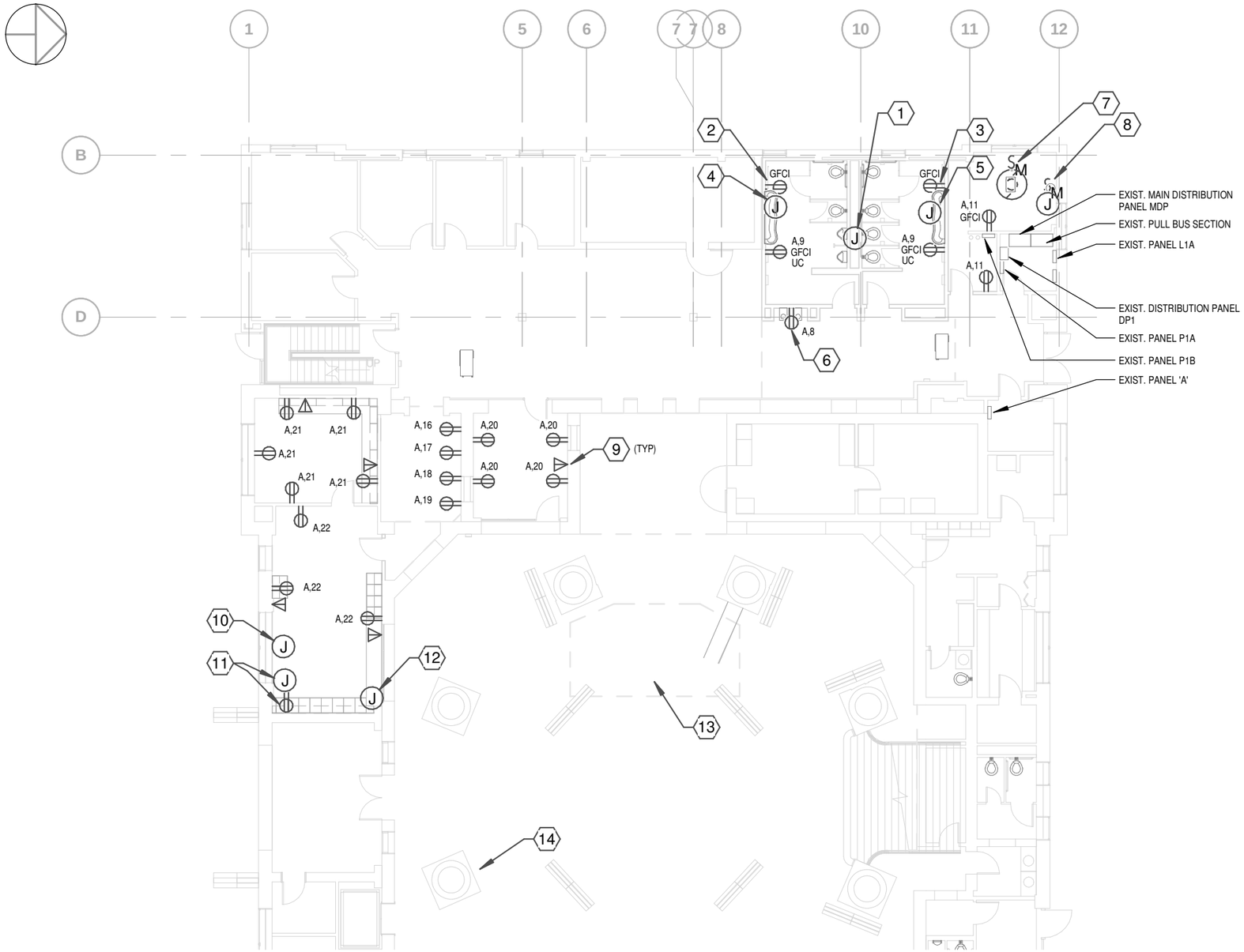

KEY NOTES:

1. MAKE DIRECT CONNECTION TO PLUMBING FIXTURE IR SENSOR PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER IR SENSOR MANUFACTURER REQUIREMENTS. PANEL 'A' CKT.#1.
2. MAKE DIRECT CONNECTION TO PLUMBING FIXTURE IR SENSOR PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER IR SENSOR MANUFACTURER REQUIREMENTS. PANEL 'A' CKT.#2. MOUNT 24" A.F.F.
3. MAKE DIRECT CONNECTION TO PLUMBING FIXTURE IR SENSOR PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER IR SENSOR MANUFACTURER REQUIREMENTS. PANEL 'A' CKT.#3. MOUNT 24" A.F.F.
4. 3/4"C, 2#6-1#10 GND. TO PANEL 'A', CKT.#4. MAKE DIRECT CONNECT TO TANKLESS WATER HEATER PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER MANUFACTURER REQUIREMENTS.
5. 3/4"C, 2#6-1#10 GND. TO PANEL 'A', CKT.#5. MAKE DIRECT CONNECT TO TANKLESS WATER HEATER PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER MANUFACTURER REQUIREMENTS.
6. RECEPTACLE FOR WATER COOLER. MATCH RECEPTACLE TYPE WITH NEMA PLUG TYPE.
7. PANEL 'A', CKT.#10. EXAUST FAN EF-1 MAKE CONNECTION TO MOTOR STARTER DISCONNECT PROVIDED BY ELECTRICAL.
8. PANEL 'A',CKT.#12. WATER HEATER WH-1. MAKE CONNECTION TO DISCONNECT PROVIDED BY ELECTRICAL.
9. DATA / TELEPHONE OUTLET. STUB 3/4" CONDUIT FORM OUTLET TO ABOVE ACCESSIBLE CEILING SPACE FOR FUTURE WIRING USE. PROVIDE FISH WIRE IN EMPTY CONDUITS. VERIFY WITH OWNER TYPE AND QUANTITY OF DATA AND TELEPHONE OUTLETS TO USE AT EACH LOCATION.
10. CONNECTION TO ROLL-UP SHUTTER. VERIFY MANUFACTURER CONNECTION REQUIREMENTS. PANEL 'A',CKT# 13.
11. RECEPTACLE AND J-BOX FOR FUTURE SECURITY CAMERA CONNECTIONS. MOUNT ABOVE ACCESSIBLE CEILING SPACE. PANEL 'A',CKT.#14.
12. CONNECTION TO ROLL-UP SHUTTER. VERIFY MANUFACTURER CONNECTION REQUIREMENTS. PANEL 'A',CKT# 15.
13. PROVIDE POWER AND DATA TO INFORMATION KIOSK- CIRCUITING TO BE DETERMINED.
14. PROVIDE POWER AND DATA TO FARE VENDING MACHINE- CIRCUITING TO BE DETERMINED.

GENERAL NOTES:

1. REFER TO DWG. E-002 FOR ELECTRICAL LIGHT FIXTURE SCHEDULE.
2. UTILIZE 1/2"C, 2#12-1#12 GND. UNLESS OTHERWISE NOTED.

FIRST FLOOR PLAN - POWER

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

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WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	BG	ECR	RH

DRAWN BY: BG
DESIGNED BY: BG
CHECKED BY: ER
PROJECT MGR.

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PARSONS NO. 445738
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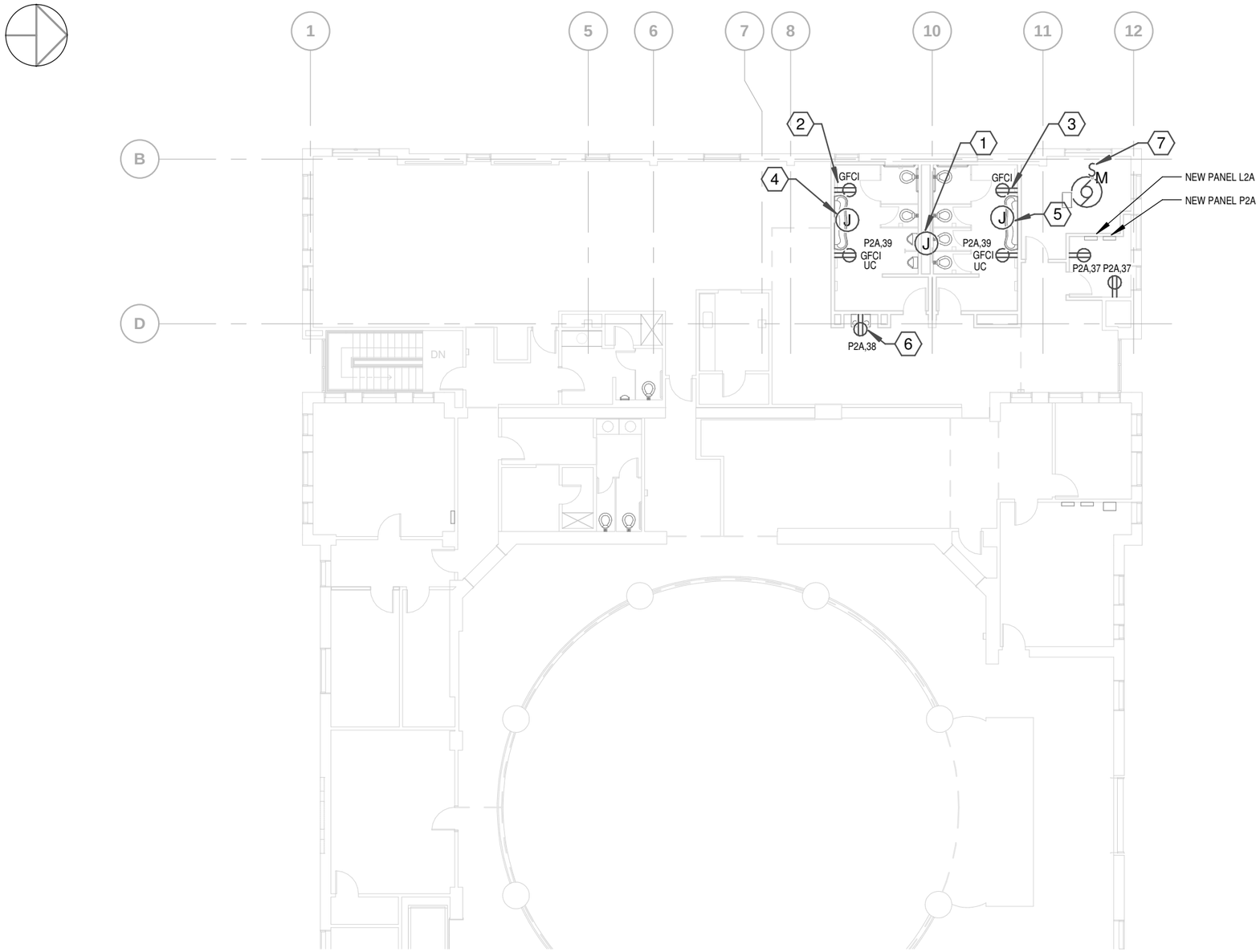
DRAWING TITLE
ELECTRICAL FIRST FLOOR PLAN POWER

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **E-201** REV. A



KEY NOTES:

1. MAKE DIRECT CONNECTION TO PLUMBING FIXTURE IR SENSOR PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER IR SENSOR MANUFACTURER REQUIREMENTS. PANEL 'L2A' CKT.#34.
2. MAKE DIRECT CONNECTION TO PLUMBING FIXTURE IR SENSOR PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER IR SENSOR MANUFACTURER REQUIREMENTS. PANEL 'L2A' CKT.#35. MOUNT 24" A.F.F.
3. MAKE DIRECT CONNECTION TO PLUMBING FIXTURE IR SENSOR PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER IR SENSOR MANUFACTURER REQUIREMENTS. PANEL 'L2A' CKT.#36. MOUNT 24" A.F.F.
4. 3/4"C, 2#6-1#10 GND. TO PANEL 'L2A', CKT.#37. MAKE DIRECT CONNECT TO TANKLESS WATER HEATER PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER MANUFACTURER REQUIREMENTS.
5. 3/4"C, 2#6-1#10 GND. TO PANEL 'L2A', CKT.#38. MAKE DIRECT CONNECT TO TANKLESS WATER HEATER PROVIDED BY MECHANICAL. MAKE ALL CONNECTIONS PER MANUFACTURER REQUIREMENTS.
6. RECEPTACLE FOR WATER COOLER. MATCH RECEPTACLE TYPE WITH NEMA PLUG TYPE.
7. PANEL 'P2A', CKT.#40. EXAUST FAN EF-2 MAKE CONNECTION TO MOTOR STARTER DISCONNECT PROVIDED BY ELECTRICAL.

GENERAL NOTES:

1. REFER TO DWG. E-002 FOR ELECTRICAL LIGHT FIXTURE SCHEDULE.
2. UTILIZE 1/2"C, 2#12-1#12 GND. UNLESS OTHERWISE NOTED.

SECOND FLOOR PLAN - POWER

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

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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PARSONS NO. 445738
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DRAWING TITLE
ELECTRICAL SECOND FLOOR PLAN POWER

65% DOCUMENTS | JUNE 25, 2010

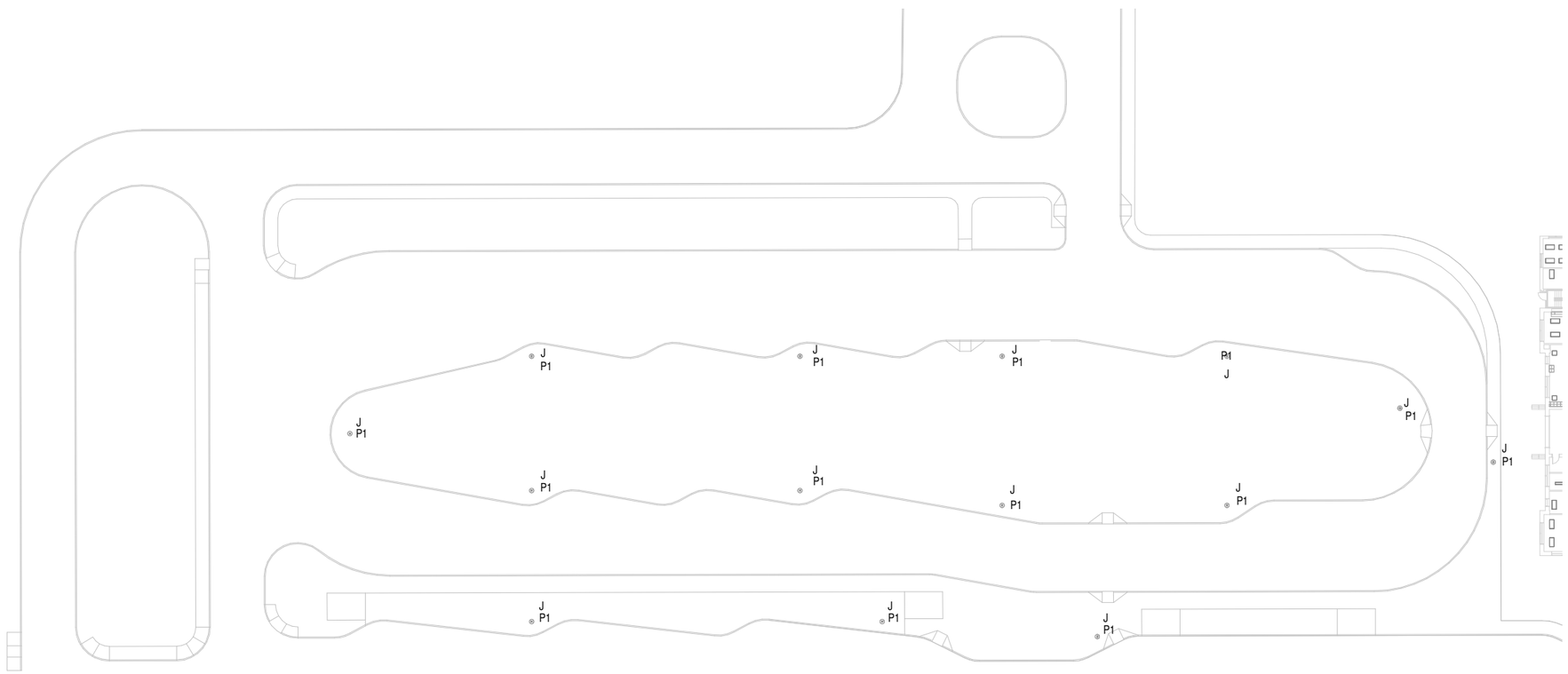
DRAWING NO. **E-202** REV. A

KEYNOTE:

1 XXX

GENERAL NOTES:

1. REFER TO DWG. E-001 FOR ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DWG. E-002 FOR ELECTRICAL LIGHT FIXTURE SCHEDULE.



SITE PLAN - SOUTH LOT

SCALE: 1" = 60'-0"

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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DRAWING TITLE
ELECTRICAL SITE PLAN - SOUTH PARKING LOT

65% DOCUMENTS | JUNE 25, 2010

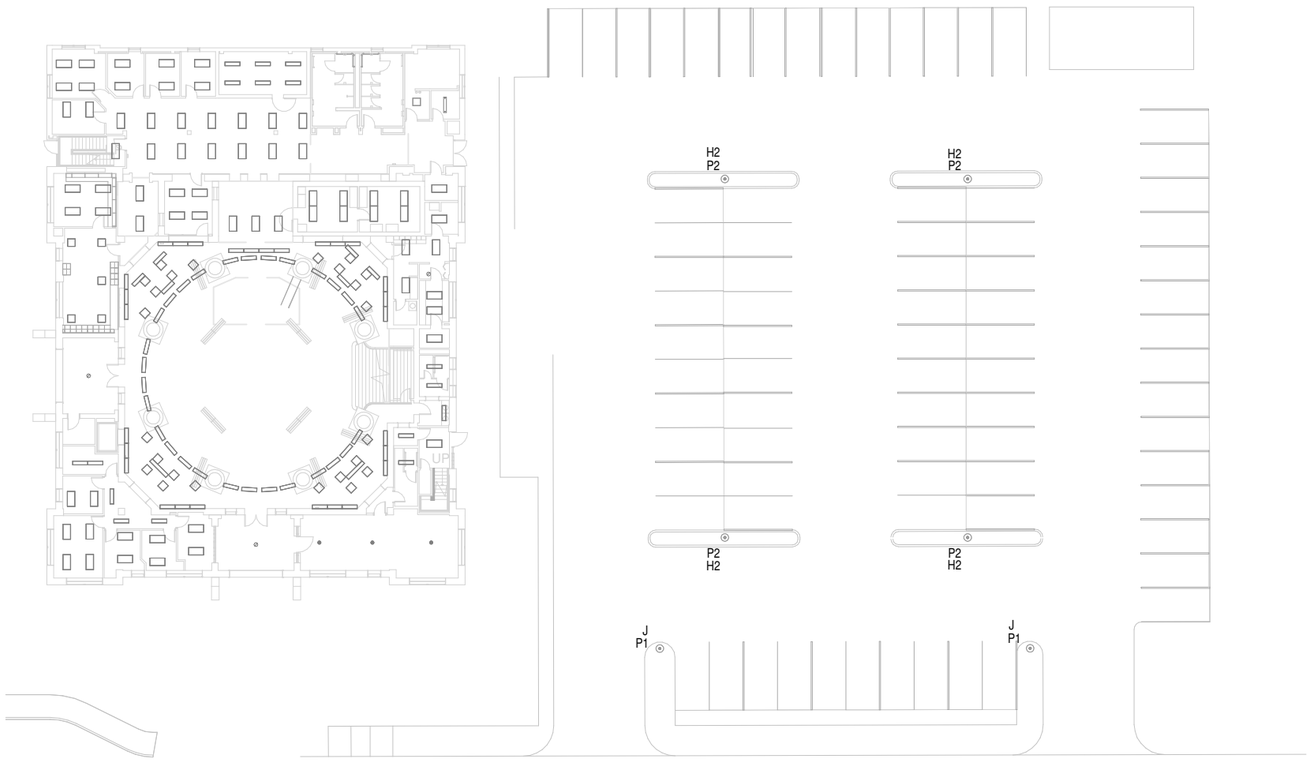
DRAWING NO. **E-203** REV. A

KEYNOTE:

1

GENERAL NOTES:

1. REFER TO DWG. E-001 FOR ABBREVIATIONS AND GENERAL NOTES.
2. REFER TO DWG. E-002 FOR ELECTRICAL LIGHT FIXTURE SCHEDULE.



SITE PLAN - NORTH LOT

SCALE: 1" = 40'-0"

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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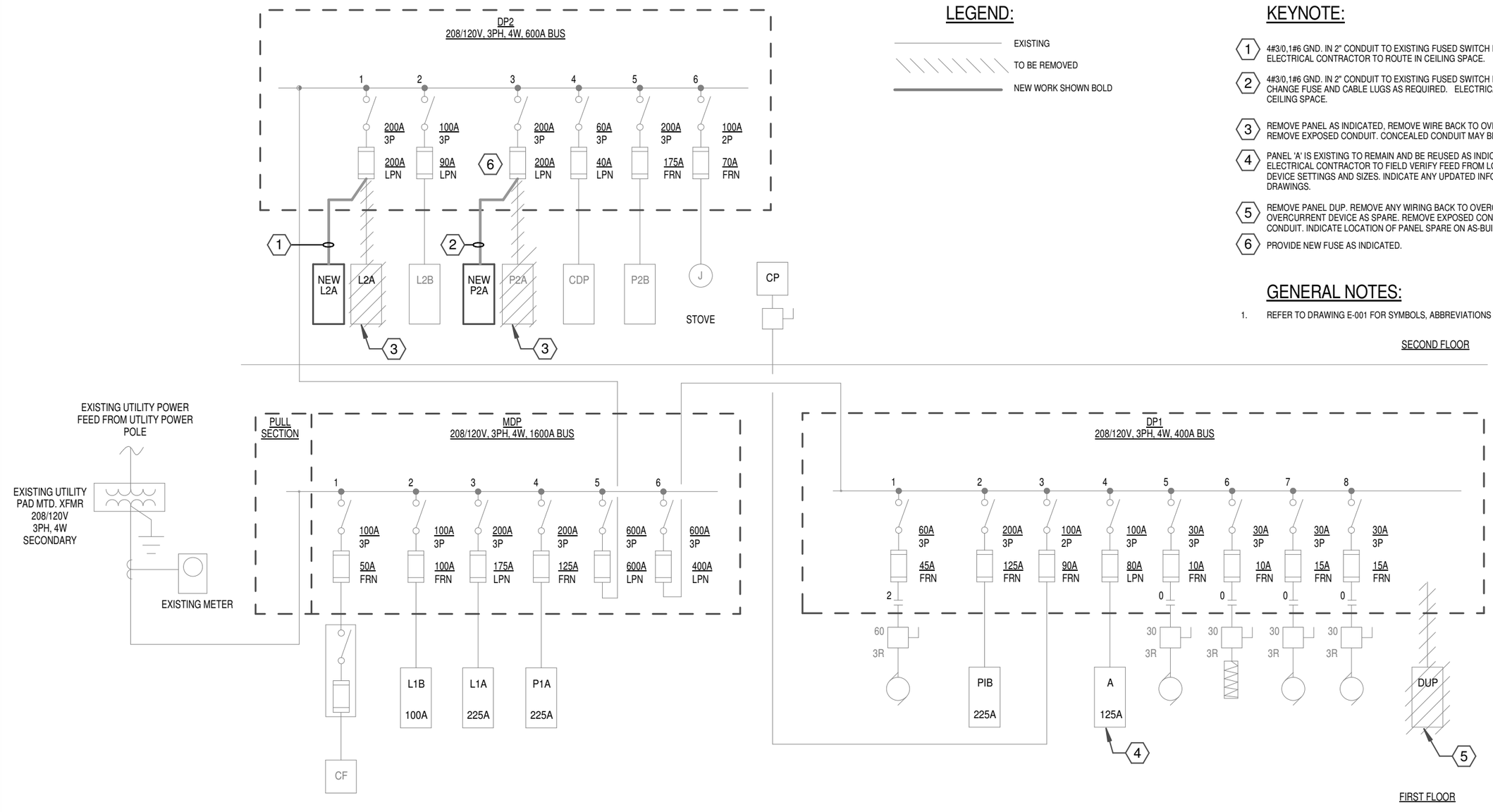
DRAWING TITLE
ELECTRICAL SITE PLAN - NORTH PARKING LOT

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **E-204** REV. A



LEGEND:

- EXISTING
- TO BE REMOVED
- NEW WORK SHOWN BOLD

KEYNOTE:

1. 4#3/0,1#6 GND. IN 2" CONDUIT TO EXISTING FUSED SWITCH IN DISTRIBUTION PANEL DP2. ELECTRICAL CONTRACTOR TO ROUTE IN CEILING SPACE.
2. 4#3/0,1#6 GND. IN 2" CONDUIT TO EXISTING FUSED SWITCH IN DISTRIBUTION PANEL DP2. CHANGE FUSE AND CABLE LUGS AS REQUIRED. ELECTRICAL CONTRACTOR TO ROUTE IN CEILING SPACE.
3. REMOVE PANEL AS INDICATED, REMOVE WIRE BACK TO OVERCURRENT DEVICE IN DP2. REMOVE EXPOSED CONDUIT. CONCEALED CONDUIT MAY BE ABANDONED.
4. PANEL 'A' IS EXISTING TO REMAIN AND BE REUSED AS INDICATED ON DRAWINGS. ELECTRICAL CONTRACTOR TO FIELD VERIFY FEED FROM LOCATION AND OVERCUREENT DEVICE SETTINGS AND SIZES. INDICATE ANY UPDATED INFORMATION ON AS-BUILT DRAWINGS.
5. REMOVE PANEL DUP. REMOVE ANY WIRING BACK TO OVERCURRENT DEVICE AND MARK OVERCURRENT DEVICE AS SPARE. REMOVE EXPOSED CONDUIT. ABANDON ANY ABOVE CEILING CONDUIT. INDICATE LOCATION OF PANEL SPARE ON AS-BUILT DRAWINGS.
6. PROVIDE NEW FUSE AS INDICATED.

GENERAL NOTES:

1. REFER TO DRAWING E-001 FOR SYMBOLS, ABBREVIATIONS & GENERAL NOTES.

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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PARSONS NO. 445738
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DRAWING TITLE
ELECTRICAL SINGLE LINE DIAGRAM

65% DOCUMENTS — JUNE 25, 2010

DRAWING NO. **E-601** REV. A

Branch Panel: L2A (NEW)

Location: Electrical Room 2-17
Supply From: Distribution Panel DP2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A

Notes:

	CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT	
	1	LIGHTING ROOM 2-06, 2-07, R2-06, R2-08, R2-07	20 A	1	0 VA			0 VA			1	20 A	LIGHTING DOME, LTG ON ROOF	2	
	3	LIGHTING ROOM 2-05, R2-11	20 A	1		0 VA			0 VA		1	20 A	LIGHTING DOME, LTG ON ROOF	4	
	5	LIGHTING ROOM 2-01	20 A	1			0 VA			0 VA	1	20 A	LIGHTING DOME, LTG ON ROOF	6	
	7	LIGHITNG ROOM 2-02	20 A	1	0 VA			0 VA			1	20 A	LTG COLUMN, LTG GRAND STAIRWAY	8	
	9	LIGHTING ROOM 2-03, 2-09	20 A	1		0 VA			0 VA		1	20 A	LTG COLUMN, LTG GRAND STAIRWAY	10	
1	11	LIGHTING ROOM 2-13, 2-14, 2-15, 2-16	20 A	1			1040			0 VA	1	20 A	LTG COLUMN, LTG GRAND STAIRWAY	12	
	13	LIGHTING ROOM 2-10, 2-11, R2-05, R2-02	20 A	1	0 VA			0 VA			1	20 A	LTG COLUMN, LTG GRAND STAIRWAY	14	
	15	LIGHTING ROOM R2-05	20 A	1		0 VA			0 VA		1	20 A	LTG COLUMN, LTG GRAND STAIRWAY	16	
	17	LIGHTING ROOM R2-01	20 A	1			0 VA			0 VA	1	20 A	TRAINING ROOM PLUGS	18	
	19	LTG ROOM R2-30 THRU R2-34	20 A	1	0 VA			0 VA			1	20 A	LIGHTING ROOM R2-21, R2-22	20	
	21	LIGHTING ROOM R2-27, R2-28, R2-29	20 A	1		0 VA			0 VA		1	20 A	LIGHTING ROOM R2-18, R2-19, R2-20	22	
	23	LIGHTING ROOM R2-26	20 A	1			0 VA			0 VA	1	20 A	LIGHTING BALCONY NW CORNER, R2-04	24	
	25	LTG - GRAND STAIRS, SPOT LIGHTS ON COL.	20 A	1	0 VA			0 VA			1	20 A	LIGHTING BALCONY SW CORNER	26	
	27	LTG-PASSAGE 2-12	20 A	1		0 VA			0 VA		1	20 A	LIGHTING BALCONY SE CORNER	28	
	29	Spare	20 A	1			0 VA			0 VA	1	20 A	LIGHTING BALCONY NE CORNER	30	
	31	Spare	20 A	1	0 VA			0 VA			1	20 A	Spare	32	
	33	Spare	20 A	1		0 VA			0 VA		1	20 A	ROOM 2-13, 2-14 IR SENSOR FOR TOILETS	34	1
1	35	IR SENSOR FOR SINK RM 2-13	20 A	1			180 VA			180 VA	1	20 A	IR SENSOR FOR SINK RM 2-14	36	1
1	37	TANKLESS HEATER RM 2-13	50 A	2	0 VA			0 VA			2	50 A	TANKLESS HEATER RM 2-14	38	1
	39	--	--	--		0 VA			0 VA		--	--	--	40	
	41	Space	--	--			0 VA			0 VA	--	--	Space	42	
				Total Load:	0 VA		0 VA		1400 VA						
				Total Amps:	0 A		0 A		12 A						

Notes:

KEYNOTE:

1 NEW LOAD

GENERAL NOTES:

1. PANELBOARD SCHEDULE SHOWN IS BASED ON THE EXISTING PANEL SCHEDULE FOR PANEL L2A. ALL EXISTING LOADS THAT ARE NOT REMOVED AS PART OF THE DEMOLITION SCOPE OF WORK SHOULD BE CIRCUITED FROM THIS NEW PANEL USING THE SAME CIRCUIT NUMBERS.

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE: ELECTRICAL PANEL SCHEDULE
65% DOCUMENTS
JUNE 25, 2010
DRAWING NO. E-901
REV. A

Branch Panel: P2A (NEW)

Location: Electrical Room 2-17
Supply From: Distribution Panel DP2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000A RMS
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT
1	HEAT PUMP R2-15 WEST END OF ROOM	15 A	2	0 VA			0 VA			2	25 A	HEAT PUMP MIDDLE ROOM R2-05	2
3	--	--	--		0 VA			0 VA		--	--	--	4
5	HEAT PUMP R2-15 EAST END OF ROOM	15 A	2			0 VA			0 VA	2	20 A	HEAT PUMP R2-27	6
7	--	--	--	0 VA			0 VA			--	--	--	8
9	HEAT PUMP R2-05 N END OF ROOM	20 A	2		0 VA			0 VA		2	20 A	HEAT PUMP R2-07	10
11	--	--	--			0 VA			0 VA	--	--	--	12
13	HEAT PUMP R2-26 SOUTH END OF ROOM	20 A	3	0 VA			0 VA			2	40 A	HEAT PUMP MIDDLE ROOM 2-17	14
15	--	--	--		0 VA			0 VA		--	--	--	16
17	--	--	--			0 VA			0 VA	--	--	Space	18
19	INSTANT WATER HEATER UNDER SINK R2-25	40 A	3	0 VA			0 VA			3	45 A	HEAT PUMP R2-01	20
21	--	--	--		0 VA			0 VA		--	--	--	22
23	--	--	--			0 VA			0 VA	--	--	--	24
25	COPY MACHINE	20 A	2	0 VA			0 VA			3	30 A	EXHAUST FAN 2-17	26
27	--	--	--		0 VA			0 VA		--	--	--	28
29	5 TON UNIT	50 A	3			0 VA			0 VA	--	--	--	30
31	--	--	--	0 VA									32
33	--	--	--		0 VA								34
35													36
1 37	RECEPT. ROOM 2-15	20 A	1	360 VA			180 VA			1	20 A	WATER COOLER	38 1
1 39	GFCI RECEPT. ROOM 2-13,2-14	20 A	1		360 VA			584 VA		1	20 A	EXHAUST FAN EF-2	40 1
41	Space	--	--			0 VA			0 VA	--	--	Space	42
			Total Load:	540 VA		944 VA		0 VA					
			Total Amps:	5 A		8 A		0 A					

Notes:

GENERAL NOTES:

1. PANELBOARD SCHEDULE SHOWN IS BASED ON THE EXISTING PANEL SCHEDULE FOR PANEL P2A. ALL EXISTING LOADS THAT ARE NOT REMOVED AS PART OF THE DEMOLITION SCOPE OF WORK SHOULD BE CIRCUITED FROM THIS NEW PANEL USING THE SAME CIRCUIT NUMBERS.

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WESTSIDE MULTI-MODAL TRANSIT CENTER

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PARSONS NO. 445738
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DRAWING TITLE
ELECTRICAL PANEL SCHEDULE

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **E-902** REV. A

Branch Panel: A (EXISTING)

Location: Room R1-17
Supply From: Field Verify
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT
1	MEN'S & WOMEN'S ROOM TOILETS IR SENSOR	20 A	1	0 VA			180 VA			1	20 A	MEN'S ROOM SINK IR SENSOR	2
3	WOMEN'S ROOM SINK IR SENSOR	20 A	1		180 VA			0 VA		2	50 A	TANKLESS HEATER	4
5	TANKLESS HEATER	50 A	2			0 VA			0 VA	--	--	--	6
7	--	--	--	0 VA			180 VA			1	20 A	WATER COOLER	8
9	RECEPT. ROOM 1-09,1-11	20 A	1		360 VA			584 VA		1	15 A	EXHAUST FAN EF-1	10
11	RECEPT. ROOM 1-12	20 A	1			360 VA			1500	1	20 A	WATER HEATER WH-1	12
13	ROLL UP SHUTTER	20 A	1	500 VA			180 VA			1	20 A	SECURITY CAMERA	14
15	ROLL UP SHUTTER	20 A	1		500 VA			1440		1	20 A	VENDING	16
17	VENDING	20 A	1			1440			1440	1	20 A	VENDING	18
19	VENDING	20 A	1	1440			720 VA			1	20 A	RECEPT. ROOM R1-07	20
21	RECEPT. ROOM R1-01	20 A	1		900 VA			540 VA		1	20 A	RECEPT. ROOM R1-02	22
23	LIGHTING ROOM 1-09, 1-11, 1-12	20 A	1			1024			464 VA	1	20 A	LIGHTING ROOM 1-10, 1-13	24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	3200 VA		4504 VA		6228 VA					
			Total Amps:	27 A		38 A		52 A					

Notes:

GENERAL NOTES:

1. ALL LOADS SHOWN ON PANEL SCHEDULE ARE NEW LOADS. ALL EXISTING LOADS ON THE PANELBOARD ARE REMOVED AS PART OF THE DEMOLITION WORK.

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PARSONS NO. 445738
VIA CONTRACT NO.

DRAWING TITLE
ELECTRICAL PANEL SCHEDULE

65% DOCUMENTS | JUNE 25, 2010

DRAWING NO. **E-903** REV. A

KEYNOTE:

1. REMOVE EXISTING LIGHT FIXTURES INCLUDING ASSOCIATED SWITCHES, CONDUITS AND WIRING BACK TO ELECTRICAL PANEL. ALL EXISTING LIGHT FIXTURES THAT REMAIN SHALL BE KEPT OPERATIONAL AND REWIRED IF NECESSARY.
2. PANEL 'P1B' SHALL REMAIN IN PLACE.
3. REMOVE ALL EXISTING RECEPTACLES, TELEPHONE/DATA OUTLETS, SECURITY SYSTEM DEVICES, ETC. INCLUDING ALL ASSOCIATED WIRES, CONDUITS AND SUPPORTS. ALL EXISTING DEVICES THAT HAVE CONDUITS PASSING THROUGH THE DEMO'D AREAS SHALL BE KEPT OPERATIONAL AND REWIRED IF NECESSARY.
4. PANEL 'DUP' HAS BEEN PREVIOUSLY DISCONNECTED AND ABANDONED. REMOVE PANEL ANY ALL ASSOCIATED CONDUITS, WIRES AND SUPPORTS THAT STILL EXIST.
5. REMOVE EXISTING LIGHT SWITCH AND REFEED ALL ASSOCIATED WIRES TO NEW SWITCH LOCATION AS INDICATED ON THE LIGHTING DRAWINGS.

FIRST FLOOR PLAN - DEMOLITION

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

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DRAWING TITLE
ELECTRICAL FIRST FLOOR DEMOLITION

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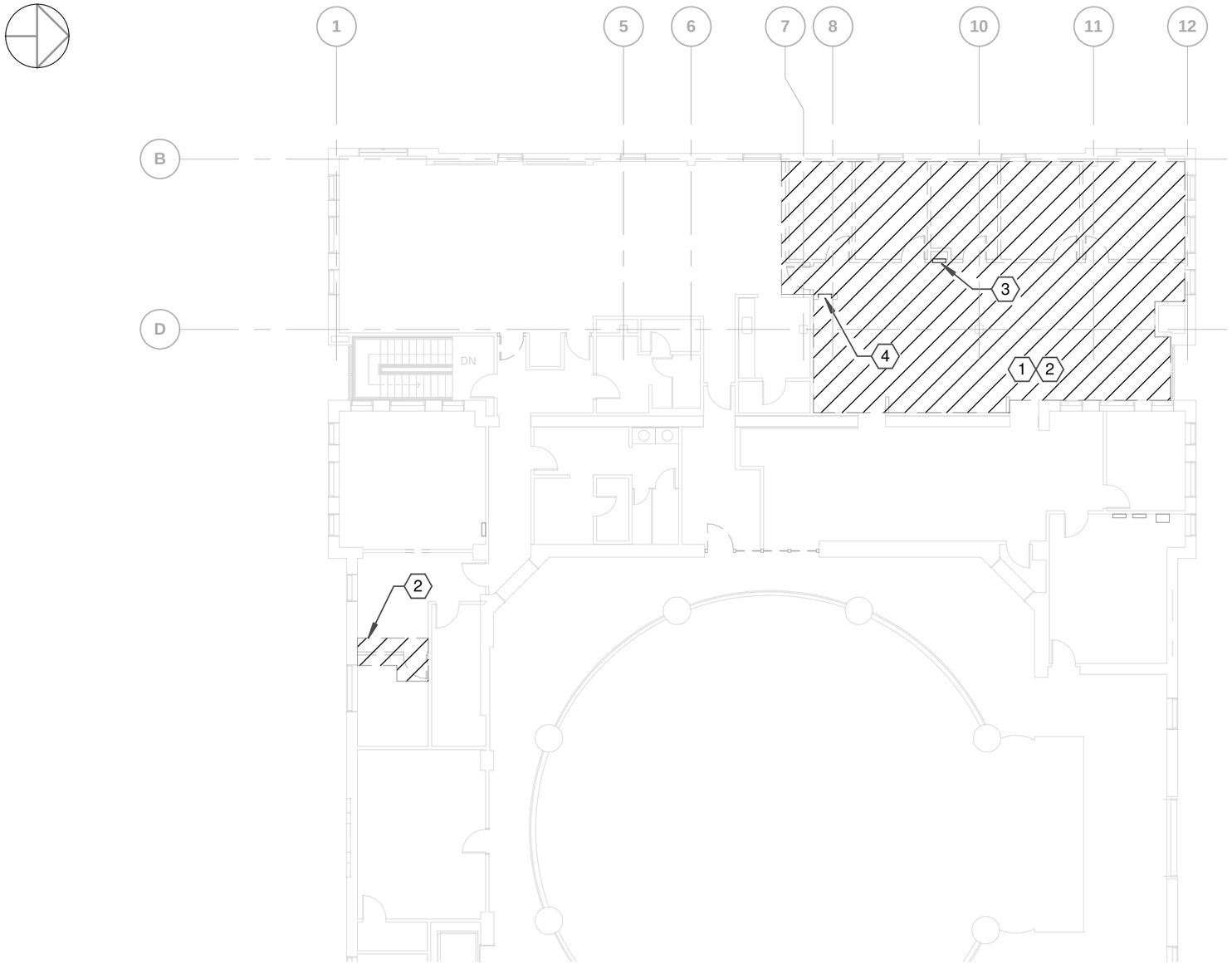
DRAWING NO. **ED-101** | REV. A



KEYNOTE:

1. REMOVE EXISTING LIGHT FIXTURES INCLUDING ASSOCIATED SWITCHES, CONDUITS AND WIRING BACK TO ELECTRICAL PANEL. ALL EXISTING LIGHT FIXTURES THAT REMAIN SHALL BE KEPT OPERATIONAL AND REWIRED IF NECESSARY.
2. REMOVE ALL EXISTING RECEPTACLES, TELEPHONE/DATA OUTLETS, SECURITY SYSTEM DEVICES, ETC. INCLUDING ALL ASSOCIATED WIRES, CONDUITS AND SUPPORTS. ALL EXISTING DEVICES THAT HAVE CONDUITS PASSING THROUGH THE DEMO'D AREAS SHALL BE KEPT OPERATIONAL AND REWIRED IF NECESSARY.
3. REMOVE EXISTING PANEL 'L2A'. A NEW PANEL 'L2A' WILL BE INSTALLED IN THE NEW ELECTRICAL ROOM. ALL EXISTING CIRCUITS THAT REMAIN MUST BE REFED FROM THE NEW PANEL AND SHALL MAINTAIN THE SAME CIRCUIT NUMBERS. A WIRING TROUGH SHALL BE INSTALLED IN THE CEILING ABOVE THE EXISTING PANEL IN ORDER TO PROVIDE A JUNCTION POINT TO EXTEND/REFEED THE EXISTING CIRCUITS.
4. REMOVE EXISTING PANEL 'P2A'. A NEW PANEL 'P2A' WILL BE INSTALLED IN THE NEW ELECTRICAL ROOM. ALL EXISTING CIRCUITS THAT REMAIN MUST BE REFED FROM THE NEW PANEL AND SHALL MAINTAIN THE SAME CIRCUIT NUMBERS. A WIRING TROUGH SHALL BE INSTALLED IN THE CEILING ABOVE THE EXISTING PANEL IN ORDER TO PROVIDE A JUNCTION POINT TO EXTEND/REFEED THE EXISTING CIRCUITS.

SECOND FLOOR PLAN - DEMOLITION

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

SEAL

"NOT FOR REGULATORY APPROVAL, PERMITTING, OR CONSTRUCTION."

6/25/2010 8:49:28 AM

VIA primo

WESTSIDE MULTI-MODAL TRANSIT CENTER

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPR'D
A	ISSUED FOR 65% REVIEW	06/25/10	BG	ECR	RH

DRAWN BY: BG
DESIGNED BY: BG
CHECKED BY: ER
PROJECT MGR.

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ELECTRICAL SECOND FLOOR DEMOLITION

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