GREEN BANK

GREEN BANK℠

BANK SUSTAINABLY

DALLAS NORTH TOLLWAY BRANCH

APPROVED FOR CONSTRUCTION
Town of Addison
Public Works Department
APPROVED BY: Ronald E. Miller
DATE: 3/19/13

All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the Town of Addison makes no representation of adequacy of the work of the Design Engineer.

.pdf marked sheets only

		MEP	ARCHITECT	PROJECT INFORMATION	
		JAMES F. TURNER ENGINEERS, L.P. 8340 MEADOW ROAD, SUITE 160 DALLAS, TX 75231 P: 214.750.2900 F: 214.750.2902	ALEXANDER + KIENAST + SCHNITZ ARCHITECTURE & INTERIOR DESIGN 13601 PRESTON ROAD SUITE 107 WEST DALLAS, TX 75240 P: 972.233.3506 F: 972.233.3525 E: akstexas@akstexas.com	**Green Bank Dallas North Tollway Branch** **16771 Dallas Parkway** **Addison, TX 75001** **PERMIT,PRICING & CONSTRUCTION** **Project Number: 1220** **Date: 01.28.13** **Revised:**	

09 OPEN
SCALE:

1. THE AMERICAN INSTITUTE OF ARCHITECTS STANDARD FORM (AIA DOCUMENT A201, 2007 EDITION, GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION), IS HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE IN THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.

2. INSURANCE AND BONDING FOR THE PROJECT SHALL BE AS DIRECTED BY AND TO THE SATISFACTION OF TENANT, LANDLORD AND OWNER.

3. ALL DRAWINGS AND SPECIFICATIONS ISSUED AS A PART OF THE SCOPE OF WORK FOR THIS PROJECT; CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, RE-USED OR DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

4. THE WORKING DRAWINGS ARE BASED UPON INFORMATION OBTAINED FROM THE BUILDING OWNER CONSISTING OF THE BASE BUILDING DRAWINGS IN THE FORM OF COMPUTERIZED SHELL BUILDING PLANS CONSTRUCTION DOCUMENTS, AND FACSIMILE COPIES.

5. THE GENERAL CONTRACTOR SHALL KEEP ONE SET OF PLANS AT THE JOB SITE FOR THE SPECIFIC PURPOSE OF RECORDING ACTUAL CONSTRUCTION CONDITIONS. SUCH "PROJECT RECORD" DOCUMENTS SHALL BE PROVIDED TO THE ARCHITECT UPON COMPLETION OF THE PROJECT.

6. THE GENERAL CONTRACTOR SHALL MAINTAIN UTILITIES TO OCCUPIED SPACES AT ALL TIMES DURING BUSINESS HOURS.

7. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AT THE JOB SITE AND NOTIFY THE ARCHITECT OF ANY DEVIATIONS FROM THOSE CONDITIONS AS THEY ARE NOTED ON THE DRAWINGS.

8. THE GENERAL CONTRACTOR SHALL SEE THAT ALL SUBCONTRACTORS RECEIVE COMPLETE SETS OF WORKING DRAWINGS OR ASSUME FULL RESPONSIBILITY FOR COORDINATION OF THE WORK WHEN COMPLETE SETS ARE NOT MADE AVAILABLE TO SUBCONTRACTORS.

9. THE GENERAL CONTRACTOR SHALL VERIFY SIZE, LOCATION AND CHARACTERISTICS OF ALL WORK AND EQUIPMENT SUPPLIED BY THE OWNER OR OTHERS, WITH THE MANUFACTURER OR SUPPLIER PRIOR TO THE START OF RELATED WORK.

10. CONTRACT CLOSE-OUT SHALL OCCUR ONLY AFTER THE ARCHITECT HAS PREPARED THE CERTIFICATE OF SUBSTANTIAL COMPLETION AND PUNCH LIST AND THE PUNCH LIST ITEMS HAVE BEEN CORRECTED. THE GENERAL CONTRACTOR SHALL SUBMIT TO THE ARCHITECT MAINTENANCE AND WARRANTY MANUALS, RELEASE OF LIENS, AND "PROJECT RECORD" DRAWINGS WITH HIS FINAL APPLICATION FOR PAYMENT. THE ARCHITECT SHALL PREPARE ANY NECESSARY CHANGE ORDERS REQUIRED TO FINALIZE THE COST OF THE PROJECT BASED UPON THE GENERAL CONTRACTOR'S FINAL SUBMITTALS. (REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.)

11. THE GENERAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH THE TENANT, THE BASE BUILDING OWNER OR LANDLORD. THE WORK OF ALL TRADES AND VENDORS IS TO BE COORDINATED BY THE GENERAL CONTRACTOR. BUILDING RULES AND REGULATIONS SHALL GOVERN HOURS.

12. MANUFACTURERS NAME, TRADEMARK, LOGOS, ETC. ON AMY PRODUCT SHALL NOT BE VISIBLE TO THE PUBLIC.

13. GENERAL CONTRACTOR SHALL FURNISH A COMPLETE LIST OF CHEMICALS TO BE USED IN THE PROJECT ALONG WITH THE MATERIAL SAFETY DATA SHEET (MSDS) ON EACH PRODUCT TO THE LANDLORD. A COPY SHALL BE KEPT ON SITE FOR REFERENCE.

08 OPEN
SCALE:

14. SCOPE OF WORK OF ALL TRADES IS TO INCLUDE ALL MATERIALS AND LABOR AS REQUIRED TO TOTALLY COMPLETE THE PROJECT FROM INTERFACE WITH EXISTING CONSTRUCTION THROUGH CONFIGURATION AS INDICATED IN THE CONSTRUCTION DOCUMENTS. ALL WORK SHALL BE COMPLETE AND FUNCTIONAL, CONSISTENT WITH THE DESIGN INTENT AS EXPRESSED IN THESE DOCUMENTS, WHETHER SPECIFICALLY ADDRESSED IN THESE DOCUMENTS OR NOT. ANY QUESTIONS CONCERNING THE COMPLETENESS OF THE WORK SHALL BE ADDRESSED TO THE ARCHITECT.

15. IT IS THE INTENT OF THE DRAWINGS THAT EXISTING CONSTRUCTION TAKE PRECEDENCE OVER THE DIMENSIONED PLANS. CONTRACTOR IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

16. ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE GOVERNING CODES AND/OR ORDINANCES. IN THE EVENT OF A CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND AN APPLICABLE CODE, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT FOR DIRECTION AND RESOLUTION. FAILURE TO NOTIFY EITHER OF THESE PARTIES PRIOR TO COMMENCEMENT OF THE WORK, SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY CORRECTIVE MEASURES NEEDED TO BRING THE PROBLEM INTO PROPER CONFORMANCE, WITHOUT ADDITIONAL COSTS OR CHARGES TO THE OWNER.

17. ALL INTERIOR GLASS SUBJECT TO HUMAN CONTACT OR IMPACT SHALL CONFORM TO STANDARDS SET FORTH BY CHAPTER 24 OF THE I.B.C. AND THE SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS. TITLE 16 OF PART 1201 AS ISSUED BY THE CONSUMER PRODUCT SAFETY COMMISSION, OR MORE STRINGENT REQUIREMENTS.

18. SHOULD THE DRAWINGS DISAGREE IN THEMSELVES, OR WITH THE SPECIFICATIONS, OR IF PROPRIETARY INFORMATION DISAGREES WITH PERFORMANCE REQUIREMENTS IN EITHER THE DRAWINGS OR THE SPECIFICATIONS, THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK OR MATERIALS SHALL BE ESTIMATED UPON, AND UNLESS OTHERWISE ORDERED BY THE ARCHITECT IN WRITING, SHALL BE PERFORMED OR FURNISHED. SHOULD DISCREPANCIES OR DOUBT OCCUR, DO NOT PROCEED WITH THE WORK WITHOUT CLARIFICATION FROM THE ARCHITECT. CONTRACTOR SHALL REQUEST CLARIFICATION IN SUFFICIENT TIME TO AVOID DELAYS AND INCREASES IN THE CONTRACT SUM.

19. IN ANY CASE OF DISCREPANCIES THE FOLLOWING ORDER OF PRECEDENCE SHALL PREVAIL:
A. SPECIFICATION REFER TO QUALITY. DRAWINGS INDICATE QUANTITY.
B. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
C. LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
D. SUPPLEMENTARY CONDITIONS TAKE PRECEDENCE OVER THE GENERAL CONDITIONS.
E. SPECIFICATIONS TAKE PRECEDENCE OVER THE GENERAL CONDITIONS.

20. SCALE AND DIMENSIONS: ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR FINAL ADJUSTMENT. CONFLICT BETWEEN TWO OR MORE DIMENSIONS APPLYING TO A COMMON POINT OR LINE SHALL BE REFERRED TO THE ARCHITECT FOR FINAL ADJUSTMENT. THE CONTRACTOR WILL BE HELD RESPONSIBLE WHEN THE ABSENCE OF SUCH PROCEDURE RESULTS IN FAILURE TO COORDINATE COMPONENT PARTS OR TO FIT THEM PROPERLY INTO PLACE.

21. IF THE WORK IS REQUIRED IN MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK, OR SHOULD DISCREPANCIES APPEAR AMONG CONTRACT DOCUMENTS, REQUEST INTERPRETATIONS BEFORE PROCEEDING WITH WORK. IF CONTRACTOR FAILS TO MAKE SUCH REQUEST, NO EXCUSE WILL THEREAFTER BE ENTERTAINED FOR FAILURE TO CARRY OUT THE WORK IN SATISFACTORY MANNER.

22. SHOULD CONFLICTS OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, CONTRACTOR IS DEEMED TO HAVE ESTIMATED ON THE MOST EXPENSIVE WAY OF DOING THE WORK, UNLESS HE SHALL HAVE ASKED FOR AND OBTAINED WRITTEN DECISION BEFORE SUBMISSION OF PROPOSAL AS TO WHICH METHOD WILL BE REQUIRED.

07 OPEN
SCALE:

TOWN OF ADDISON BUILDING INSPECTION DEPARTMENT
16801 Westgrove Drive
Addison, TX 75001
Phone: (972)-450-2880

APPLICABLE CODES	AMENDMENTS
2009 International Building Code (IBC)	
2009 International Mechanical Code (IMC)	
2009 International Plumbing Code (IPC)	
2009 International Energy Conservation Code (IECC)	
2009 International Property Maintenance Code (IPMC)	
2008 National Electrical Code (NEC)	

ACCESSIBILITY
2010 Americans With Disabilities Guidelines (ADAAG)
2012 Texas Accessibility Standards Elimination of Architectural Barriers (TAS)
2009 International Code Council- American National Standards Institute (ICC/ANSI 117.1)

USE & OCCUPANCY

Type B	Classification (s) by Occupancy	Section 304
Type VB	Classification of Construction Type	Table 601
No	Sprinklers Installed or Provided	Section 903
40	Allowable Height in Feet	Table 503
2	Allowable Number of Stories	Table 503
9,000	Allowable Floor Area (SF per floor)	Table 503
1	Actual Number of Stories	
3,611	Actual Gross Building Area	

FIRE RESISTANCE ELEMENTS PROTECTION

N/A	Adjacent Area/Lease Use Classification	Section 304
N/A	Tenant Separation Walls (In Hours)	Table 508.4
0	Walls Within Tenant Space (In Hours)	Table 601
0	Structural Elements within Tenant Space (In Hours)	Table 601
0	Floor Construction	Table 601
0	Roof Construction	Table 601
0	Exterior Bearing Walls	Table 601
1	Exit Access Corridors (In Hours)	Table 1018.1

EXIT REQUIREMENTS

0.2	Per Person	Section 1005.1
7	Horizontal Exit Width Required (Inches)	Section 1005.1
36	Minimum Width of Exitway Access Corridors	Section 1018.2
32	Minimum Width of Egress Door	Section 1008.1.1
2	Minimum Number of Exits	Table 1020.1
N	Door Swing (O: Out+, N: Not required)	Section 1008.1.2
N	Panic Hardware Required	Section 1008.1.10
200	Maximum Distance of Travel to an Exit (In Feet)	Table 1016.1
20	Dead End Corridor Length (In Feet)	Section 1018.4

PROJECT INFORMATION

PROJECT NAME: Green Bank Tollway

PROJECT LOCATION: Green Bank
16771 Dallas Parkway
Addison, TX 75001

TENANT: Green Bank
4000 Greenbriar
Houston, TX 77098

BUILDING OWNER / MANAGER: Green Bank
4000 Greenbriar
Houston, TX 77098

FIRE ALARM - FIRE PROTECTION SYSTEM

Yes	Fire Alarm System is required and provided,	Section 907.2.2
Yes	HVAC Smoke Detectors are required and provided.	Section 907.3.1
No	Automatic Sprinkler System provided	Section 903

EMERGENCY LIGHTING

Yes	Emergency Lighting is required and provided,	Section 1006
Yes	Exit Lights are provided.	Section 1011

FIRE EXTINGUISHERS

Yes	Fire extinguisher shall be placed not to exceed 75 feet in travel distance to reach an extinguisher (150 feet apart). Refer Drawings for Location.	Table 906.3(1)

DOORS - HARDWARE - GLAZING

Yes	Doors are to be operable from egress side without the use of key or special knowledge or effort when Area of Work is occupied.	Section 1008.1.9
Yes	Locks and latches are permitted in Group B to prevent operation where the following exist: 1. The locking device is readily distinguishable as locked. 2. A readily visible durable sign is posted on the egress side stating: "This Door To Remain Unlocked When Building Is Occupied"	Section 1008.1.9.3
Yes	All glazing required to be safety glass for doors, window lites within 24" of openings.	Section 2406.4.6

SCOPE OF WORK
Interior renovation of approx. 3,254 SF, including demolition, new partitions and minor electrical & plumbing work.

AREA OF WORK SUMMARY

3,611 Sq Ft	Gross Area Of Building (Sq Ft)
3254 Sq Ft	Gross Area Of Work in Building (Sq Ft)
3254 Sq Ft	Gross Area Of Floor - 1st Floor (Sq Ft)
357 Sq Ft	Gross Area Of Floor - Mezzanine (Sq Ft)
3254 Sq Ft	Gross Area of Work - 1st Floor (Sq Ft)

OCCUPANCY: AREA OF WORK AND BUILDING

Type B	Occupancy of Lease	
Type B	Previous Lease Occupancy	
Type N/A	Adjacent Lease Occupancy	
100 Sq Ft	Area per Occupant Gross	Table 1004.1.1
33	Occupant Load of Area Of Floor - 1st Floor (Sq Ft/100)	
4	Occupant Load of Area Of Floor - Mezzanine (Sc Ft/100)	
33	Occupant Load of Area Of Work - 1st Floor (Sq Ft/100)	

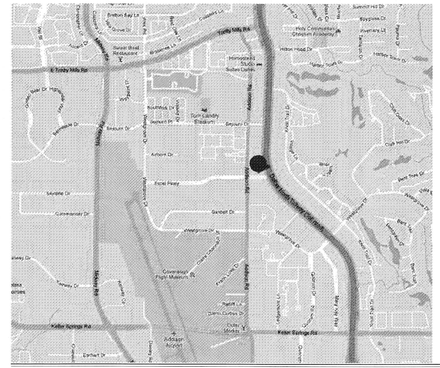
TOILET FIXTURE REQUIREMENTS

Water Closet:	1 per 25 for first 50, 1 per 50 thereafter	Table 2902.1
Lavatories:	1 per 40 for first 80, 1 per 80 thereafter.	
Other:	1 Water Fountain per 100, 1 Service Sink per Floor.	

TOILET FIXTURES REQUIRED/PROVIDED FOR AREA OF WORK

OCCUPANTS	NUMBER	WC M/F	UR	LAV	DRINKING FOUNTAINS
1st Floor - 33 Occupants	16	1	X	1	2

06 LOCATION MAP
SCALE: N.T.S.



NORTH

05 GENERAL NOTES
SCALE: N/A

SYMBOL	DESCRIPTION
	EXISTING PARTITIONS TO BE REMOVED
	EXISTING PARTITIONS TO REMAIN
	NEW PARTITIONS WHERE NEW WALLS AND DEMO'ED WALLS ARE SHOWN NEW WALLS WILL BE HATCHED THUS
101	DOOR NO. SAME AS ROOM NO. INTO WHICH DOOR SWINGS (ADD A, B, C'S TO DOOR NO. IF MORE THAN ONE DOOR)
A	WINDOW TYPE - REF. WINDOW TYPES LEGEND
A	WALL TYPE - REF. WALL TYPES LEGEND
OFFICE 101	ROOM NAME / ROOM NUMBER
A	KEY NOTE - REF. KEY NOTES
A	REVISION MARK
3 S3	ELEVATION NUMBER / SHEET NUMBER

SYMBOL	DESCRIPTION
01 / 400	DETAIL NUMBER / SHEET NUMBER
01 / 400	SECTION NUMBER / SHEET NUMBER
01 / 261	DETAIL TAG / DETAIL OR SECTION NUMBER / SHEET NUMBER
A	TOILET ACCESSORY - REF. TOILET ACCESSORY LEGEND
A	COLUMN MARK
6'-0"	HEIGHT ABOVE FINISH FLOOR / DATUM MARK
	FLOORING TRANSITION LINE
99'	NEW GRADE
99'	EXISTING GRADE
100.0 / 99.50	NEW SPOT GRADE
100.0 / 99.50	EXISTING SPOT GRADE

03 SYMBOLS LEGEND
SCALE: N/A

02 ABBREVATIONS & MATERIALS
SCALE: N/A

ABB.	DESCRIPTION
A.F.F.	ABOVE FINISHED FLOOR
AL.	ALUMINUM
B.O.	BOTTOM OF
B.U.R.	BUILT UP ROOF
CLG.	CEILING
CONC.	CONCRETE
DED.	DEDICATED
EQ.	EQUAL
F.C.	FURRING CHANNELS
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET W/FIRE EXTINGUISHER
GA.	GAUGE
G.B.	GYPSUM BOARD
G.C.	GENERAL CONTRACTOR
H.M.	HOLLOW METAL
MAX.	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
M.O.	MASONRY OPENING
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.D.	OVERFLOW DRAIN
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
P.L.	PLASTIC LAMINATE
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
T.F.C.I.	TENANT FURNISHED CONTRACTOR INSTALLED
T.F.T.I.	TENANT FURNISHED TENANT INSTALLED
T.O.	TOP OF
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.W.C.	VINYL WALL COVERING
W.H.	WATER HEATER
W.P.	WORK POINT

MATERIAL	DESCRIPTION
	ACOUSTIC CLG. TILE
	BATT INSULATION
	BRICK
	CERAMIC TILE
	CONCRETE
	EARTH
	EXISTING TO REMAIN
	GYPSUM BOARD
	METAL
	PLYWOOD
	SAND/MORTAR/PLASTER
	SHEATHING
	CONT. WOOD FRAMING
	WOOD FRAMING BLK'NG

04 PROJECT DATA & CODE ANALYSIS
SCALE: N/A

---- COVER SHEET
001 PROJECT INFORMATION
002 TYPICAL DETAILS
010 GENERAL NOTES
011 GENERAL NOTES

ARCHITECTURAL DRAWINGS
100 SITE PLAN - DEMOLITION
---- SITE SURVEY
110 SITE PLAN
111 SITE PAVING DETAILS
112 SITE PAVING/DUMPSTER ENCLOSURE DETAILS
113 ADDISON ROW PAVING DETAILS
114 ADDISON ROW PAVING DETAILS
120 GRADING PLAN
200 LIFE-SAFETY PLAN
211 DEMOLITION PLAN
221 FLOOR PLAN
231 LARGE SCALE FLOOR PLAN/WALL TYPES/DETAILS
232 LARGE SCALE ARCHITECTURAL PLAN DETAILS
233 LARGE SCALE ARCHITECTURAL PLAN DETAILS
240 LARGE SCALE TOILET/ELEVATIONS
251 REFLECTED CEILING PLAN
271 FINISH FLOOR PLAN
281 COMMUNICATION PLAN
300 EXTERIOR ELEVATIONS
401 WALL SECTIONS
402 WALL SECTIONS
403 WALL SECTIONS
510 INTERIOR ELEVATIONS
621 MILLWORK - LOW WALL
622 MILLWORK DETAILS
700 DOOR/FRAME TYPES/ SCHEDULE/ HARDWARE/DETAILS
900 SPECIFICATIONS

SPECIFICATIONS
901-915 SPECIFICATIONS

MECHANICAL DRAWINGS
M1.1 FLOOR PLAN HVAC
M2.1 DETAILS HVAC
M3.1 SPECS HVAC

ELECTRICAL DRAWINGS
E1.1 LIGHTING PLAN
E2.1 POWER PLAN
E3.1 SITE LIGHTING PLAN
E4.1 ELECTRICAL RISER & PANELS
E5.1 ELECTRICAL SPECIFICATIONS

PLUMBING DRAWINGS
P1.1 PLUMBING PLAN
P2.1 PLUMBING SPECIFICATIONS

01 LISTING OF DRAWINGS
SCALE: N/A

THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS, P.O. BOX 12337, AUSTIN, TX 78711-2337 OR 333 GUADALUPE, SUITE 2-350, AUSTIN, TX 78701-3942, (512) 305-9000, HAS JURISDICTION OVER INDIVIDUALS LICENSED UNDER THE ARCHITECT'S REGISTRATION LAW, TEXAS CIVIL STATUTES, ARTICLE 249A.

ALEXANDER KIENAST SCHNITZ
ARCHITECTURE & INTERIOR DESIGN
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DALLAS, TX 75240
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F: 972.233.3525
Email: akstexas@akstexas.com
Web: www.akstexas.com

REGISTERED ARCHITECT — JACK W. KIENAST — 9384 — STATE OF TEXAS
03.01.13

REVISIONS
1 REVISIONS PER CITY COMMENTS 03.01.13

DATE:
01.28.13
PROJECT NO:
1220
ISSUED FOR:
PERMIT,PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

PROJECT INFORMATION
001

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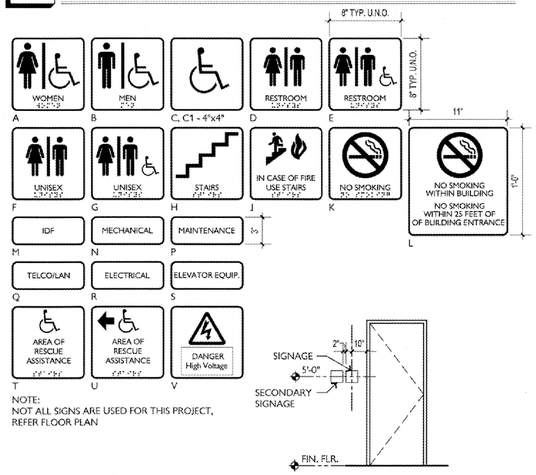
11 OPEN
SCALE:

10 OPEN
SCALE:

09 OPEN
SCALE:

08 OPEN
SCALE:

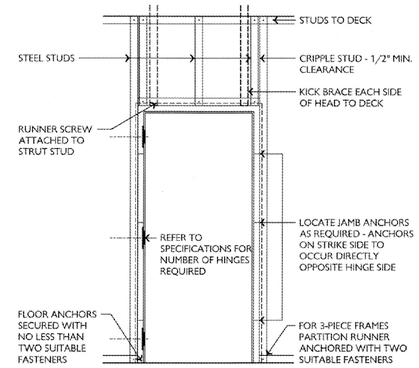
07 OPEN
SCALE:



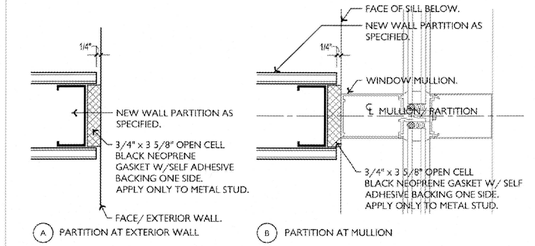
NOTE:
NOT ALL SIGNS ARE USED FOR THIS PROJECT, REFER FLOOR PLAN

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

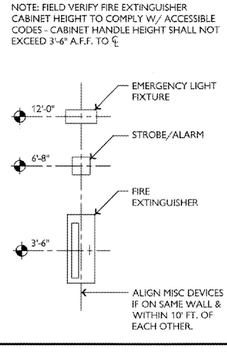
06 OPEN
SCALE:

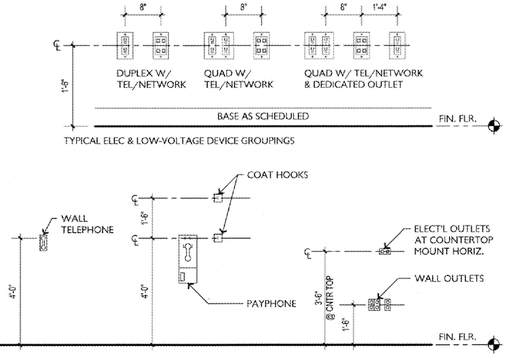


05 DETAIL AT DOOR FRAMING
SCALE: 1/2" = 1'-0"



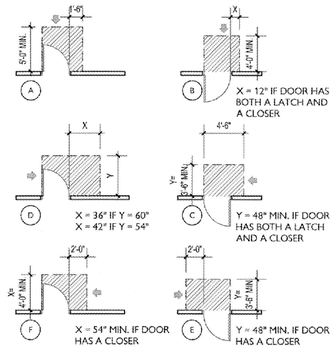
04 TYPICAL PARTITION DETAILS
SCALE: 3" = 1'-0"





02 MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

NOTE:
MINIMUM CLEAR AREAS TO BE PROVIDED - CONTRACTOR TO VERIFY FOR EACH OPENING.



01 DOOR CLEARANCES
SCALE: 1/8" = 1'-0"

ALEXANDER + KIENAST + SCHNITZ
ARCHITECTURE & INTERIOR DESIGN
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Email: akstexas@akstexas.com
Web: www.akstexas.com

REGISTERED ARCHITECT
JACK W. KIENAST
1.28.13
6384
STATE OF TEXAS

REVISIONS

DATE:
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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

TYPICAL DETAILS

002

J:\Vangl\2012\1220 - Greenbank- Dallas North Tollway\Sheets\200 - General\002 TYPICAL DETAILS.dwg Jan 28, 2013 01:57pm AKS-109-PE

04 GENERAL FINISH NOTES

FL1 THE CONTRACTOR SHALL PREPARE SUBFLOOR TO PROVIDE A CONTINUOUS SMOOTH FLOOR SURFACE. LEVEL CHANGE NOT TO EXCEED 1/4" IN 10'-0" NONCUMULATIVE.

FL2 WORKMANSHIP SHALL BE OF THE BEST QUALITY AND WHEN THE WORK IS COMPLETE IT SHALL BE FREE FROM BUCKLES, BUBBLES, OPEN JOINTS OR OTHER IMPERFECTIONS. SEAMS SHALL BE KEPT IN ACCURATE ALIGNMENT ALONG BOTH COORDINATES. TILE HAVING CHIPPED OR ROUNDED CORNERS WILL BE REJECTED.

FL3 TILE SHALL BE LAID IN SQUARE PATTERN PARALLEL TO WALLS AND CENTERED IN ROOM, U.N.O. THE TILE SHALL BE SECURELY CEMENTED AND SHALL BE LAID WITH TIGHT JOINTS. THE ADHESIVE USED FOR CEMENTING TILE SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATORY GUIDELINES.

FL4 SPACES BEING SURFACED SHALL BE CLOSED TO TRAFFIC AND OTHER WORK DURING THE LAYING OF FLOORING. STONE, WOOD, AND RESILIENT FLOOR SHALL BE COVERED AFTER INSTALLATION FOR PROTECTION.

FL5 UPON COMPLETION, WORK SHALL BE CLEANED BY THE CONTRACTOR, REMOVING ADHESIVE, STAINS, AND DEBRIS.

FL6 CONTRACTOR TO COORDINATE ALL FLOORING CONTRACTORS INVOLVED TO ENSURE FLUSH INSTALLATION OF ALL VARYING FLOOR MATERIALS USED. ALL TRANSITION METHODS TO BE CENTERED ON DOOR.

FL7 THRESHOLDS MUST BE BEVELED AND MUST NOT EXCEED 1/2" IN HEIGHT.

FL8 ALL CARPET BASE SPECIFIED SHALL HAVE A SERGED EDGE IN A COORDINATION YARN COLOR. ALL VINYL BASE SPECIFIED SHALL BE INSTALLED USING PRE-FORMED INTERIOR AND EXTERIOR CORNERS.

FL9 PROVIDE REDUCER STRIP WHERE FLOOR FINISHES OF DIFFERENT MATERIALS OCCUR APPROPRIATE TO THE TRANSITION, COLOR SHALL BE SELECTED BY THE ARCHITECT.

FL10 BASE SHALL BE INSTALLED USING WHOLE UNITS. NO PIECE SHALL BE SMALLER THAN 1'-0" AT A CORNER CONDITION.

FL11 ALL CHANGES IN FLOOR MATERIAL BETWEEN ROOMS SHALL OCCUR AT THE CENTER LINE OF THE DOOR, U.N.O.

09 GENERAL FLOORING NOTES

F1 ALL FINISHES SHALL BE BID AS SPECIFIED. ANY SUBSTITUTION MUST BE APPROVED BY THE ARCHITECT PRIOR TO SUBMISSION OF BID.

F2 ALL INTERIOR FINISHES SHALL BE IN COMPLIANCE WITH LOCAL AND NATIONAL CODES. THE CONTRACTOR SHALL ADVISE THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF A NON-COMPLIANT FINISH.

F3 ALL FINISHES SHALL BE INSPECTED UPON ARRIVAL TO THE JOB SITE FOR DEFECTS AND DYE LOT CONSISTENCY. NOTIFY ARCHITECT OF ANY DEFECTS PRIOR TO INSTALLATION. THE ARCHITECT SHALL ALSO BE NOTIFIED IMMEDIATELY OF ANY INSTALLATION PROBLEMS.

F4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY LEAD TIMES FOR ALL FINISHES. ALL DELIVERY TIMES MUST BE CONFIRMED AND ANY FINISHES THAT HAVE EXCESSIVE LEAD TIMES, WHEREBY NOT PERMITTING INSTALLATION SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.

F5 ALL FINISHES SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

F6 ALL SURFACES SHALL BE PREPARED APPROPRIATELY TO RECEIVE THE SPECIFIED FINISH.

F7 WALLS AND CEILINGS SHALL BE PROPERLY PREPARED, SPACKLED, SANDED, ETC. TO PROVIDE A SMOOTH FINISH AND SURFACE READY FOR PRIMER AND PAINT.

F8 WOOD SHELVING AND PAINTED DOORS SHALL RECEIVE PRIMING, SANDING AND TWO FULL COATS OF SEMI-GLOSS PAINTS, FREE OF BRUSH MARKS.

F9 NONE OF THE FINISHES SHALL BE INSTALLED UNDER CONDITIONS WHICH WOULD JEOPARDIZE THE QUALITY OF THE WORK. ALL WORKMANSHIP WHICH IS JUDGED TO BE LESS THAN FIRST QUALITY BY THE ARCHITECT SHALL BE REJECTED.

F10 PROTECT NEW INSTALLED FINISHES FOR DAMAGE THAT MAY OCCUR FROM OTHER TRADES.

F11 EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND PROCEED WITH TOUCH-UP AS REQUIRED.

F13 ALL FINISHES SHALL BE IN A "LIKE NEW" CONDITION.

F13 FINISHES OF THE SAME KIND SHALL ALIGN AND NAP. WEAVE OR PATTERN SHALL RUN IN THE SAME DIRECTION, U.N.O.

F14 CONCRETE SLABS ON GRADE OR NEW CONCRETE FLOORS SHALL BE TESTED FOR MOISTURE PRIOR TO ORDERING THE FLOORING. CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING IF SLAB FAILS TO MEET THE MOISTURE REQUIREMENTS OF THE MANUFACTURER.

F15 ALL IMPERFECTIONS AND SLIGHT DEPRESSIONS IN THE FLOOR SURFACE SHALL BE FLOATED WITH APPROVED UNDERLAYMENT AS SPECIFIED.

F16 IN EXISTING CONDITIONS TO REMAIN, PROVIDE SEALER AND PRIMER WHERE WATER DAMAGE, SOILING OR STAINING EXISTS.

F17 ALL EXISTING WALL SURFACES SHALL HAVE NAILS, SCREWS OR MOLLY BOLTS REMOVED AND FILLED. ALL CRACKS AND SURFACE IMPERFECTIONS SHALL BE FILLED. SAND SMOOTH GYPSUM BOARD WALL SURFACES AND WIPE CLEAN WITH DAMP CLOTH.

F18 THE CONTRACTOR SHALL REMOVE SWITCH PLATES, OUTLET PLATES, SURFACE HDWE, ETC. PRIOR TO PAINTING, REPLACING SAME WHEN PAINTING HAS BEEN COMPLETED. REMOVE PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON SURFACES, INCLUDING, BUT NOT LIMITED TO LIGHT FIXTURES, DIFFUSERS, REGISTERS, ETC.

F19 EXISTING EXPOSED FIELD PAINTED METAL SURFACES SHALL BE SANDED LIGHTLY AND PAINTED. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, PAINTED DOOR FRAMES, ACCESS PANELS, PERIMETER DRAPERY POCKETS, WINDOW SILLS, FIRE EXTINGUISHER CABINETS, AND HVAC UNITS, U.N.O.

F20 THE CONTRACTOR SHALL INSTALL WALLCOVERINGS PER MANUFACTURER INSTALLATION SPECIFICATIONS. WALLCOVERINGS SHALL BE SMOOTH, WITH NO WRINKLES, BUBBLES OR LOOSE EDGES. PASTE AND BRUSH MARKS SHALL BE THRIVINGLY REMOVED. WALLCOVERING ADJOINING WOOD OR METAL TRIM SHALL BE CUT STRAIGHT AND SQUARE.

F21 IRREGULARITIES IN EXISTING PARTITIONS SHALL BE CORRECTED TO ENSURE A PERFECTLY EVEN SURFACE.

F22 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH LOCAL VOC REGULATIONS FOR MATERIALS USED IN CONSTRUCTION.

F23 WINDOW COVERINGS ARE EXISTING AND SHALL REMAIN. PROTECT FROM DUST AND DAMAGE. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO EXISTING WINDOW COVERINGS AS A RESULT OF CONSTRUCTION ACTIVITIES.

F24 ALL PAINT SHALL BE APPLIED IN ACCORDANCE TO THE MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR SURFACE.

F25 FLAME SPREAD RATINGS FOR INTERIOR FINISHES ARE TO BE IN ACCORDANCE WITH APPLICABLE CODES.

03 GENERAL PARTITION NOTES

W1 THE CONTRACTOR SHALL PROVIDE PARTITIONS AS DETAILED ON THE DRAWINGS.

W2 ALL PARTITION TYPES SHOWN HERE ARE DRAWN AS "NON FIRE-RATED". WHERE FIRE RESISTIVE GYPSUM WALLBOARD CONSTRUCTION IS INDICATED, PROVIDE "TYPE X" GYPSUM WALLBOARD AND PROVIDE SEALANT AT PERIMETER AND ALL PENETRATIONS, TYPICAL BOTH SIDES OF PARTITION.

W3 GYPSUM DRYWALL AND METAL STUDS SHALL COMPLY WITH APPLICABLE STANDARDS OF UL, ASTM, ANSI AND ALL OTHER STANDARDS OF MANUFACTURER'S ASSOCIATIONS AND AS SPECIFIED HEREIN.

W4 UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.

W5 PARTITIONS SHALL BE ANCHORED FIRMLY USING MECHANICAL FASTENERS MEETING INDUSTRY STANDARDS, STATE, AND LOCAL CODES REQUIREMENTS.

W6 SOUND BATT INSULATION WHERE SCHEDULED SHALL COMPLY WITH ASTM C665, TYPE 1, GLASS FIBER COMPOSITION, UNFACED. NON-COMBUSTIBLE WHEN TESTED IN ACCORDANCE WITH ASTM E 136.

W7 INSTALL PARTITION AND CEILING FRAMING IN ACCORDANCE WITH ASTM C754 AND MANUFACTURER'S INSTRUCTIONS.

W8 INSTALL GYPSUM PANELS IN ACCORDANCE WITH ASTM 754 GA-216 AND MANUFACTURER'S INSTRUCTIONS.

W9 ALL GYPSUM WALLBOARD TO BE 5/8" THICK TYPE 'X' FIRE RATED, U.N.O.

W10 WHERE PARTITIONS ABUT CEILING OR DECK CONSTRUCTION, PROVIDE SLIP OR CUSHION TYPE JOINT BETWEEN PARTITION AND STRUCTURE AS RECOMMENDED BY STUD MANUFACTURER TO PREVENT THE TRANSFER OF STRUCTURAL LOADS OF MOVEMENT TO PARTITIONS.

W11 ALL STUD PARTITIONS TO HAVE CONTINUOUS SEALANT APPLIED AROUND PERIMETER OF PARTITION, ESPECIALLY AT THE TOP AND THE BOTTOM, AND AT OTHER ADJOINING STRUCTURES.

W12 PROVIDE CONTINUOUS SEALANT AT ALL DUCTS, WIRES, CONDUITS, ETC. PENETRATED THROUGH WALLS AND PARTITIONS REQUIRED FIRE RATINGS OR ACOUSTICAL SEPARATION.

W13 TAPE AND FLOAT ALL DRYWALL PARTITIONS AND CEILINGS. PROVIDE CORNER BEADS ON ALL OUTSIDE CORNERS AND "J" TRIM ON ALL EXPOSED DRYWALL EDGES.

W14 PROVIDE ADDITIONAL FRAMING AND BLOCKING AS REQUIRED TO SUPPORT GYPSUM BOARD AT OPENINGS AND CUT-OUTS.

W15 SECURE HANGER FOR SUSPENDED CEILINGS TO UNDERSIDE OF STRUCTURE IN APPROVED METHOD.

W16 PROVIDE CONTROL JOINTS IN DRYWALL CONSTRUCTION AS REQUIRED BUT NOT LESS THAN EVERY 30'-0".

W17 PROVIDE MOISTURE RESISTANT GYPSUM BACKING BOARD (DENS-SHIELD OR EQUIVALENT) WITH CORE AND PAPER FACINGS TREATED TO RESIST MOISTURE AS A SUBSTRATE WHERE CERAMIC OR STONE WALL TILE SHOWN EXCEPT SHOWER WALLS.

W18 PROVIDE GLASS FIBER REINFORCED CONCRETE BOARD AT SHOWER WALLS AND CEILINGS.

W19 PROVIDE FULL WIDTH OF CAVITY OR STUD SOUND ATTENUATION BATT AT ALL SCHEDULED PARTITIONS.

W20 FIRE RATED WALLS AND FIRE BARRIERS THAT ARE REQUIRED TO HAVE PROTECTED OPENINGS AND EXTEND INTO PLENUM OR CONCEALED SPACE SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILINGS. THE LETTERS SHALL NOT BE LESS THAN 1" HIGH ON CONTRASTING BACKGROUND. EACH SIGN OR STENCIL SHALL BE SPACED 10' O.C. AND BE REASONABLY VISIBLE. SUCH IDENTIFICATION SHALL BE ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES. SUGGESTED WORDING: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS.

W21 INSTALL ACOUSTICAL PARTITIONS AS FOLLOWS:
a. EXTEND ACOUSTICAL PARTITION PASS INTERSECTING NON-ACOUSTICAL PARTITIONS.
b. FILL WALL CAVITY WITH SOUND BATTS. ELIMINATE ALL VOIDS.
c. SEAL ACOUSTICAL PARTITION AT PERIMETER AND AROUND PENETRATIONS WITH CONTINUOUS BEAD OF SEALER IN FIRE RATED PARTITIONS, USE FIRE STOPPING SEALER IN ACOUSTICAL PARTITIONS, USE ACOUSTICAL SEALER. SEAL SPACE BETWEEN GYPSUM BOARD PANEL AT CONTROL JOINTS, PRIOR TO INSTALLING METAL CONTROL JOINTS. APPLY SEALER TO PENETRATIONS THROUGH PARTITIONS.

W22 INSTALL ACCESSORIES AS FOLLOWS:
a. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
b. INSTALL CORNER REINFORCEMENT AT OUTSIDE CORNERS. USE SINGLE LENGTHS WHERE LENGTH OF CORNER DOES NOT EXCEED STANDARD HEIGHT.
c. INSTALL CASING WHERE INDICATED AND WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS OR STOPS EDGE EXPOSED.
d. INSTALL CONTROL JOINTS AT WALLS AND PARTITIONS AT MAXIMUM OF 30'. REVIEW PROPOSED LOCATIONS WITH ARCHITECT.
e. INSTALL CONTROL JOINT IN GYPSUM BOARD CEILING AT A MAXIMUM OF 50'. REVIEW PROPOSED LOCATIONS WITH ARCHITECT.

W23 TREAT JOINTS AND FASTENERS IN GYPSUM BOARD IN ACCORDANCE WITH GA-214.

W24 LEVEL OF FINISH - PER GA-214
a. SURFACES IN PLENUM (LEVEL 1).
b. WATER RESISTANT GYPSUM BOARD (LEVEL 2).
c. SURFACE TO RECEIVE FLAT AND EGGSHELL PAINTS (LEVEL 4).
d. SURFACE TO RECEIVE SEMI-GLOSS PAINT (LEVEL 5).

W25 NEW PARTITIONS CONSTRUCTED TO DECK SHALL RECEIVE RETURN AIR BOOTS APPROPRIATELY SIZED FOR PROPER OPERATION OF HVAC SYSTEM.

W26 FOR PARTITIONS UNDER 10'-0" HIGH OR LESS, USE VERTICAL INSTALLATION, FOR PARTITIONS OVER 10'-0" HIGH USE HORIZONTAL INSTALLATION AND STAGGER PANELS.

W27 NEW FIRE RATED PARTITIONS SHALL HAVE FIRE DAMPERS OF THE APPROPRIATE SIZE AND RATING.

W28 PROVIDE ACCESS PANELS OF THE APPROPRIATE FIRE RATING FOR MECHANICAL, ELECTRICAL OR PLUMBING ACCESS.

W29 PROVIDE NON-COMBUSTIBLE BLOCKING, NAILERS, GROUNDS, AND FURRING IN WALLS AS REQUIRED TO SUPPORT WALL HUNG MILLWORK ITEMS OR OWNER SUPPLIED ITEMS INDICATED ON PLANS.

W30 WHERE OPENINGS OCCUR IN EXISTING FIRE RATED AREAS OR PARTITIONS DUE TO ANY CONSTRUCTION ACTIVITY HEREIN, OR WHERE EXISTING FIRE PROOFING HAS BEEN REMOVED AS A RESULT OF EXISTING OR NEW CONSTRUCTION WORK THE CONTRACTOR SHALL CLOSE AND/OR PATCH AS REQUIRED, OPENINGS TO MATCH IMMEDIATE ADJACENT AREAS IN MATERIAL, FINISH AND FIRE RATING.

W31 WHERE PARTITIONS EXTEND BEYOND CEILING TO STRUCTURE ABOVE, PROVISIONS SHALL BE MADE FOR RETURN AIR MOVEMENT BACK TO THE PLENUM AS REQUIRED.

W32 CONTRACTOR SHALL REVIEW AND COORDINATE ALL WALL THICKNESS AT PLUMBING TO INSURE DRAIN LINES, WASTE LINES AND RISERS FIT WITHIN SCHEDULED STUD WIDTHS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

W33 THE CONTRACTOR SHALL COORDINATE ALL TRADES AS REQUIRED TO PROVIDE SOLID BLOCKING AND/OR BACK-UP PLATES INSIDE PARTITIONS AS REQUIRED FOR ALL WALL SUPPORTED CABINETS, SHELVING, WINDOWS, DOORS, ETC.

W34 DOORS, FRAMES AND HARDWARE:
a. DOORS, FRAMES AND HARDWARE SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE CITY AND STATE BUILDINGS CODES AND SCHEDULES/SPECIFICATIONS CONTAINED HEREIN.

02 GENERAL LAYOUT NOTES

L1 DIMENSIONS NOTED "CLEAR" OR "CLR" OR "HOLD" MUST BE ACCURATELY MAINTAINED. ALLOW FOR THICKNESS OF ALL WALL FINISHES. THE MEASUREMENT SHALL NOT VARY MORE THAN 1/2" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.

L2 ALL WORK SHALL BE ERECTED AND INSTALLED PLUMB, LEVEL, SQUARE AND TRUE.

L3 REFER TO REFLECTED CEILING PLAN FOR SOFFIT, CEILING HEIGHTS, AND PLENUM BARRIER LOCATIONS.

L4 ALL DIMENSIONS TO THE EXTERIOR WALLS ARE TO THE INSIDE FACE OF THE EXISTING SILL OR INNERMOST OBJECT, U.N.O.

L5 WALL DIMENSIONS ARE FINISHED FACE OF WALL TO FINISHED FACE OF WALL, U.N.O. CENTERLINE OF WALL TO ALIGN WITH CENTERLINE OF MULLION/COLUMN, U.N.O.

L6 ALL DIMENSIONS LOCATING DOORS ARE TO THE INSIDE FACE OF THE JAMB, OR TO CENTERLINE OF DOOR AS INDICATED ON THE DRAWINGS, U.N.O.

L7 DURING LAYOUT PHASE: PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHOULD DISCREPANCIES BE DISCOVERED, SHALL NOTIFY THE ARCHITECT.

L8 THE CONTRACTOR SHALL PROVIDE CHALK LINES ON THE SLAB OF PARTITIONS FOR APPROVAL PRIOR TO FRAMING. THE ARCHITECT IS TO BE NOTIFIED OF ANY DEVIATION FROM CONSTRUCTION DIMENSIONS OR CLEARANCES AS DESIGNATED ON PLAN OR OF APPARENT CONSTRUCTION CONFLICTS.

L9 WALLS SHOWN ALIGNED WITH BASE BUILDING STRUCTURE SHALL BE FLUSH AND SMOOTH WITH BASE BUILDING STRUCTURE, U.N.O.

L10 IT IS THE INTENT OF THE DRAWINGS THAT EXISTING CONSTRUCTION TAKE PRECEDENCE OVER THE DIMENSIONED PLANS. CONTRACTOR IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

L11 ALL INTERIOR LUMBER SHALL BE FIRE RETARDANT IN COMPLIANCE WITH AWPA C20.

L12 ALL CONCRETE CUTTING IN OCCUPIED BUILDINGS OR CORING SHALL BE DONE AFTER NORMAL BUSINESS HOURS.

L13 WHERE EXISTING CABINETS ARE SCHEDULED TO REMAIN, CONFIRM PROPER OPERATION OF DOORS, DRAWERS, APPLIANCES, AND PLUMBING. REPAIR AS NECESSARY FOR PROPER OPERATION. STRAIGHTEN DOORS AND DRAWERS.

L14 GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL COORDINATE AND COMBINE ALL WORK ABOVE GYPSUM BOARD CEILING AND SOFFIT AREAS TO ENSURE JUNCTION BOXES, VALVES, SWITCHES AND OTHER ELEMENTS REQUIRING ACCESS ARE INSTALLED AT COLLECTIVE LOCATIONS. CONTRACTORS SHALL COORDINATE LOCATIONS.

L15 DIMENSIONS NOTED "CLEAR" OR "CLR" OR "HOLD" MUST BE ACCURATELY MAINTAINED. ALLOW FOR THICKNESS OF ALL WALL FINISHES. THE MEASUREMENT SHALL NOT VARY MORE THAN 1/2" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.

06 GENERAL CEILING NOTES

C1 THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW MINERAL/WOOD ACOUSTIC SUSPENDED CEILING ONLY IN AREAS DESIGNATED ON THE REFLECTED CEILING PLAN AND AS SPECIFIED OR SCHEDULED.

C2 FASCIAS OR BREAKS IN THE CEILING HEIGHTS CREATED BY THE INSTALLATION AND/OR ALTERATION OF HVAC OR MECHANICAL DUCTS, PIPING OR OTHER EQUIPMENT SHALL BE FORMED OF GYPSUM WALLBOARD ON FURRING CHANNELS.

C3 SUSPENDED CEILING HEIGHT SHALL BE AS SHOWN ON THE DRAWINGS AND DETAILS. ANY DEVIATION FROM HEIGHT SHOWN WILL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. HEAD ROOM ALONG AN ACCESSIBLE ROUTE SHALL NOT BE LESS THAN 80" PER ADA TITLE III.

C4 PRIOR TO CLOSING UP CEILING, PLENUM SYSTEMS (HVAC, PLUMBING, CABLING AND ELECTRIC) SHALL BE INSPECTED AND TESTED BY CONTRACTOR'S ENGINEERS AND BY AUTHORITIES HAVING JURISDICTION TO ENSURE THEIR PROPER INSTALLATION AND FUNCTION.

C5 JOINTS IN THE TILE FIELD SHALL BE SQUARE, LEVEL AND PERFECTLY ALIGNED WITH EACH OTHER AND WITH THE RECESSED LIGHTING FIXTURES.

C6 CEILINGS IN CLOSETS SHALL BE OF THE SAME HEIGHT AND CONSTRUCTION AS THAT OF ADJOINING SPACE, U.N.O.

C7 THE CONTRACTOR SHALL PROVIDE CUTOUTS AND OTHER SPECIAL PROVISIONS IN ACOUSTICAL WORK FOR LIGHTING FIXTURES, REGISTERS, DIFFUSERS AND OTHER INSTALLED ITEMS.

C8 THE CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING CEILING TILES WHICH ARE REMOVED TO FACILITATE PLENUM SYSTEM INSTALLATIONS.

C9 REPLACE DAMAGED, SCRATCHED AND MARRED CEILING TILES. REPLACE DAMAGED CROSS TEES. REPAIR HOLES WITHIN MAIN TEES WITH CAULK. TOUCH UP PAINT MINOR BLEMISHES TO MATCH.

C10 CEILING GRID (NEW AND EXISTING) IS TO BE REPAIRED AND LEVELED TO PROPER CONSISTENT HEIGHT BEFORE INSTALLATION OF TILES.

C11 CEILING TILES TO BE RANDOMLY INSTALL TO PREVENT BATCHING OF COLORS.

C12 GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL COORDINATE AND COMBINE ALL WORK ABOVE GYPSUM BOARD CEILING AND SOFFIT AREAS TO ENSURE JUNCTION BOXES. VALVES, SWITCHES AND OTHER ELEMENTS REQUIRING ACCESS ARE INSTALLED AT COLLECTIVE LOCATIONS. CONTRACTORS SHALL COORDINATE LOCATIONS.

C13 CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL HVAC BOXES AND FAN UNITS TO INSURE SERVICE CLEARANCES AND ALL ACCESS PANELS VISUALLY ALIGN IN THE FINISHED SURFACES. NOTIFY ARCHITECT OF ANY ITEMS THAT WILL NOT ALIGN PRIOR TO INSTALLATION.

07 GENERAL MILLWORK NOTES

MW1 CABINET FINISHES SHALL BE AS NOTED ON DRAWINGS.

MW2 "INSTALLED" CABINETS SHALL BE SCRIBED TO WALL OR CEILING. CABINET CONTRACTOR TO CHECK JOB PROGRESS AND COORDINATE WITH OTHER TRADES INVOLVED.

MW3 THE CABINET CONTRACTOR SHALL PROVIDE RUBBER BUMPERS ON ALL WOOD DOORS.

MW4 FINISHED WORK SHALL BE ASSEMBLED AND FINISHED IN THE SHOP AND DELIVERED TO THE BUILDING READY TO PLACE.

MW5 WORK SHALL BE FABRICATED, ASSEMBLED, FINISHED AND ERECTED TO MEET CURRENT AWI STANDARDS OF "CUSTOM GRADE" SPECIFICATIONS U.N.O.

MW6 CONTRACTOR TO SUBMIT SHOP DRAWINGS AND SAMPLES FOR APPROVAL. MILLWORK SHOP DRAWINGS ARE TO CALL OUT MATERIALS AND FINISHES. JOINTS, CORNERS, AND EDGES ARE TO BE DETAILED INDIVIDUALLY. DIMENSIONS, CRITICAL OR OTHERWISE, ARE TO BE CALLED OUT ON THE SHOP DRAWINGS. THE ARCHITECT WILL NOT REVIEW DRAWINGS WHICH ARE INCOMPLETE AND SHOW MINIMAL DETAILING.

MW7 MILLWORK, SPECIFIED PRODUCTS, AND SPECIAL ASSEMBLIES ARE SUBJECT TO SUBMITTAL AND SHOP DRAWING PREPARATION AND REVIEW. SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE WAIVED WITHOUT WRITTEN PERMISSION.

MW8 PROVIDE NON-COMBUSTIBLE BLOCKING IN PARTITIONS TO SECURE MILLWORK. REFER GENERAL AND PARTITION NOTES.

01 GENERAL DEMOLITION NOTES

D1 DEMOLITION IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN, BUT IS TO INCLUDE WHAT IS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE FULL SCOPE OF CONSTRUCTION.

D2 THE CONTRACTOR SHALL INSPECT THE SITE AND CALL ATTENTION TO THE ENVIRONMENTAL HAZARDS WITH BUILDING MANAGEMENT. SAID HAZARDS ARE TO BE REMOVED AT THE BUILDING OWNER'S EXPENSE. REMOVAL TO ADHERE TO THE ENVIRONMENTAL PROTECTION AGENCY'S GUIDELINES.

D3 UPON DISCOVERY OF CONCEALED OR UNANTICIPATED ITEMS (E.G. ASBESTOS, PLUMBING, DUCTWORK, ETC.) CONTACT THE ARCHITECT PRIOR TO REMOVAL OF SUCH ITEMS.

D4 CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE DEMOLITION AND REMOVAL OF ALL ITEMS AS INDICATED.

D5 CONTRACTOR SHALL KEEP ADJACENT AREAS FREE OF DUST AND DEBRIS.

D6 THE CONTRACTOR SHALL FURNISH BUILDING MANAGEMENT WITH A COMPLETE INVENTORY LIST OF ITEMS THAT CAN BE REUSED AND/OR STORED IN BUILDING STOCK.

D7 THE CONTRACTOR SHALL EXECUTE WORK WITHIN THE REGULATIONS OF THE BUILDING FOR DEMOLITION AND REMOVAL OF DEBRIS, INCLUDING OVERTIME WORK.

D8 WORK DEMOLISHED SHALL BE REMOVED FROM THE PREMISES EXCEPT ITEMS TO BE REUSED OR RETURNED, U.N.O. COORDINATE THE STORING OF SALVAGED ITEMS WITH THE TENANT PROJECT MANAGER.

D9 THE CONTRACTOR SHALL CAP & FLUSH OFF BEHIND FINISH SURFACES PROJECTING ITEMS WHICH ARE ABANDONED.

D10 COORDINATE THE REMOVAL OF THE DEBRIS WITH PROPERTY MANAGEMENT FOR AFTER HOURS REMOVAL. COORDINATE THE LOCATION FOR TEMPORARY DUMPSTER WITH THE PROPERTY MANAGEMENT.

D11 AT THE COMPLETION OF DEMOLITION WORK, THE CONSTRUCTION AREA(S) SHALL BE LEFT IN "BROOM CLEAN" CONDITION. ALL DEBRIS AND MISCELLANEOUS MATERIALS SHALL BE REMOVED.

D12 PATCH AND REPAIR ANY DAMAGE CAUSED TO ADJACENT AREAS.

D13 AN ACCESSIBLE PATH TO THE EXITS OR FIRE STAIRS SHALL BE MAINTAINED AT ALL TIMES.

D14 FIRE RATED WALLS SHALL BE MAINTAINED AT ALL TIMES. IF DAMAGE OR DEMOLITION OF FIRE RATED WALLS OCCUR THEY SHALL BE PROMPTLY REPAIRED.

D15 NO EXISTING SMOKE DETECTOR, PUBLIC ADDRESS SPEAKER, FIRE ALARM BOX OR SIMILAR DEVICE, INCLUDING THE ASSOCIATED WIRING SHALL BE DAMAGED DURING THE DEMOLITION OR SUBSEQUENT CONSTRUCTION. RELOCATION OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM EQUIPMENT SHALL BE ACCOMPLISHED AS A FIRST PRIORITY. SMOKE DETECTORS SHALL BE BAGGED DURING CONSTRUCTION HOURS AND BAGS SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION EACH DAY.

D16 ALL BROKEN, STAINED OR DAMAGED CEILING TILES SHALL BE DISCARDED, AND REPLACED WITH NEW.

D17 HVAC EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, THERMOSTATS, AND PLUMBING SHALL REMAIN, U.N.O. ANY ITEM SCHEDULED TO BE REMOVED SHALL BE REMOVED TO ITS SOURCE ON THE FLOOR, U.N.O.

D18 REMOVE ALL DEVICES, BOXES, CONDUITS, CONDUCTORS AND SIGNAL CABLES TO MAKE-UP BOX IN PARTITIONS SCHEDULED TO BE DEMOLISHED. REMOVE ALL SIGNAL CABLES, BOXES IN SAME.

D19 REMOVAL OF ANY EQUIPMENT, CABLING, SWITCHES AND CONDUIT PERTAINING TO DATA, COMMUNICATIONS AND TELEPHONES SHALL BE VERIFIED WITH TENANT'S DATA COMMUNICATIONS REPRESENTATIVE AS REQUIRED TO PREVENT CONSTRUCTION DELAYS.

D20 REMOVE ALL EXISTING IRREGULAR MATERIALS WHICH CAUSE MIGHT RISE IN FLOORING SURFACE, SUCH AS FASTENERS, OUTLETS, TRIM, FLASH PATCH, CONCRETE FILL, PLYWOOD, ETC. U.N.O.

D21 CONTRACTOR SHALL KEEP WINDOW COVERINGS FREE OF DUST AND PROTECT FROM DAMAGE, U.N.O. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF WINDOW COVERING DUE TO DAMAGE RESULTING FROM CONSTRUCTION ACTIVITIES.

D22 DEMOLITION OR REMOVAL OF ALL PLUMBING PENETRATIONS SHALL MEET ALL STATE AND LOCAL FIRE CODE REQUIREMENTS.

D23 REMOVE ALL ABANDONED SIGNAL CABLE FROM PLENUM PER UBC.

08 GENERAL ROUGH BLOCKING NOTES

B1 INTERIOR LUMBER SHALL BE FIRE RETARDANT IN COMPLIANCE WITH AWPA C20.

B2 INTERIOR PANEL PRODUCTS SHALL BE FIRE RETARDANT IN COMPLIANCE WITH AWPA C27, INTERIOR TYPE B.

B3 PROVIDE BLOCKING, NAILERS, GROUNDS, FURRING AND OTHER SIMILAR ITEMS REQUIRED TO RECEIVE AND SUPPORT MILLWORK AND OTHER WORK HANGING OR SUSPENDED FROM WALLS/GYPSUM CEILINGS..

05 GENERAL CUTTING & PATCHING NOTES

CP1 THE CONTRACTOR SHALL DO THE CUTTING, FITTING AND PATCHING WORK THAT MAY BE REQUIRED TO MAKE RELATED PARTS COME TOGETHER PROPERLY.

CP2 THE CONTRACTOR SHALL PROVIDE FLOOR CUT-OUTS AND PATCHING FOR THE INSTALLATION OF RELATED WORK.

CP3 THE CONTRACTOR SHALL SURVEY AND REPAIR EXISTING FINISHED SURFACES FOR DAMAGE SUCH AS CHIPS, CRACKS, HOLES, AND OTHER DEFECTS CAUSING AN APPEARANCE DIFFERENT FROM A NEW FIRST CLASS FINISHED INSTALLATION.

CP4 EXISTING LOOSE PAINT SHALL BE REMOVED AND SPACKLED OR PLASTER PATCHED.

CP5 DAMAGED EXISTING AREAS TO REMAIN AND EXISTING AREAS AFFECTED BY DEMOLITION OR NEW CONSTRUCTION WORK SHOWN ON DRAWINGS SHALL BE PATCHED TO MATCH ADJACENT AREAS IN MATERIALS, FIRE RATING, FINISH AND COLOR U.N.O.

CP6 FIRE PROOFING REMOVED FROM COLUMNS AND BEAMS DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED WITH THE SAME MATERIAL AND RATING AS THAT WHICH WAS REMOVED.

CP7 WHERE EXISTING BASE IS REMOVED AND REPLACED WITH A LIKE HEIGHT BASE THE WALL SHALL BE SCRAPED, SKIMMED AND TEXTURED TO MATCH THE ADJACENT WALL, FROM 1" BELOW TOP OF BASE TO 3" ABOVE TOP OF BASE.

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REVISIONS

DATE:
01.28.13
PROJECT NO:
1220
ISSUED FOR:
PERMIT,PRICING & CONSTRUCTION

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M1 PROVIDE FULLY OPERABLE MECHANICAL AND PLUMBING SYSTEMS. ADD MECHANICAL EQUIPMENT, DUCTS, DIFFUSERS AND THERMOSTATS AS INDICATED IN PROJECT DOCUMENTS. LACKING SPECIFIC ENGINEERING DOCUMENTS, PROVIDE MECHANICAL RENOVATIONS/ADDITIONS IN ACCORDANCE WITH IMC 2006. NEW MECHANICAL WORK SHALL CONFORM WITH INTERNATIONAL ENERGY CONSERVATION CODE 2009. WATER HEATERS SHALL BE PROVIDED WITH "HEAT TRAPS" AT TANK CONNECTIONS OF INLET AND OUTLET PIPING, AND PRESSURE EQUALIZATION TANKS PER IECC 2009.

M2 CORRIDOR WALLS THAT EXTEND TO DECK SHALL HAVE RETURN AIR FIRE DAMPERS.

M3 THE CONTRACTOR SHALL PROVIDE HVAC ENGINEERING AND WORK FOR FINISH-OUT DRAWINGS WHICH LACK ENGINEERING PLANS OR SPECIFICATIONS.

M4 THE HVAC CONTRACTOR SHALL INSPECT SYSTEMS FOR PROPER OPERATIONS AT COMPLETION OF THE JOB.

M5 INSTALLATION SHALL BE COORDINATED WITH TRADES TO MINIMIZE CONFLICTS. CEILING DIFFUSERS TO BE RELOCATED TO MAINTAIN NEW FIXTURE PATTERNS. REQUIRED FIXTURES MAY BE RELOCATED ON A MAXIMUM OF 6'-0" OF MYLAR COATED FLEX RUNOUT DUCT.

M6 THE HVAC ENGINEER WILL PROVIDE NECESSARY ENGINEERING DRAWINGS TO REWORK EXISTING EQUIPMENT AND DETERMINE NEW EQUIPMENT TO MEET THE ABOVE REQUIREMENTS.

M7 BUILDING MECHANICAL SERVICE SHUT DOWNS REQUIRED FOR THIS WORK SHALL BE SUBMITTED IN WRITING BY THE HVAC CONTRACTOR A MINIMUM OF 72 YOURS IN ADVANCE OF THE SHUT DOWN. THE HVAC CONTRACTOR SHALL OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION PRIOR TO SHUT DOWN. SHUT DOWN AFFECTING THE NORMAL HVAC SERVICE OF OTHER BUILDING OCCUPANTS SHALL BE DONE AFTER HOURS.

M8 BALANCING OF HVAC SYSTEM SHALL BE DONE BY A QUALIFIED TEST AND BALANCE FIRM. SUBMIT WRITTEN REPORT TO BUILDING MANAGEMENT UPON COMPLETION.

M9 DUCT WORK SHALL BE INSULATED FOR THERMAL AND ACOUSTIC CONSIDERATIONS.

M10 IF EXISTING, MODIFY ALL SYSTEMS, SUCH AS FIRE ALARM, PUBLIC ADDRESS, AND SMOKE DETECTORS PER APPLICABLE AND PREVAILING CODE.

M11 RELOCATE THERMOSTATS, DIFFUSERS AND RETURNS PER PROJECT DOCUMENTS. PROVIDE NEW SUPPLY DUCT, DIFFUSERS AND RETURNS AS NEEDED PER PROJECT DOUCMENTS.

M12 PATCH ALL ABANDONED TAPS, HOLES OR LEAKING JOINTS WITHIN THE DISTRIBUTION SYSTEM. TAPE OR SEAL ALL JOINTS AND CONNECTIONS.

M13 REMOVE ALL THERMOSTATS AFFECTED BY DEMOLITION. COIL UP AND SECURE AT EQUIPMENT WHICH SERVES THERMOSTAT UNTIL HVAC WORK FOR NEW CONSTRUCTION TAKES PLACE.

M14 ANY FIRE PROTECTION DEVICES TO BE RELOCATED SHALL BE COILED ABOVE CEILING AS TO PREVENT ANY PULLED OR BROKEN LINES.

M15 CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL HVAC BOXES AND FAN UNITS TO INSURE SERVICE CLEARANCES AND ALL ACCESS PANELS VISUALLY ALIGN IN THE FINISHED SURFACES. NOTIFY ARCHITECT OF ANY ITEMS THAT WILL NOT ALIGN PRIOR TO INSTALLATION.

07 GENERAL MECHANICAL NOTES

E1 REFER TO SHEET 002 FOR TYPICAL MOUNTING HEIGHTS.

E2 DIMENSIONS ARE TO THE CENTER OF A DEVICE OR GROUP OF DEVICES, U.N.O.

E3 WHERE ELECTRICAL OR TELEPHONE OUTLETS APPEAR BACK TO BACK THEY MAY BE OFFSET TO ALLOW A SECURE CONNECTION TO THE NEAREST METAL STUD IN COMPLIANCE WITH LOCAL GOVERNING CODES OR LATEST NEC ADOPTED BY LOCAL JURISDICTION.

E4 WHERE ELECTRICAL AND VOICE/DATA OUTLETS ARE SHOWN SIDE BY SIDE, THEIR CENTERLINES SHALL ALIGN VERTICALLY AND THEY SHALL BE INSTALLED 8" CENTER TO CENTER, IF THESE CONDITIONS CAN NOT BE MET THE CONTRACTOR SHALL REQUEST A NEW LOCATION BY THE ARCHITECT.

E5 WHERE MULTIPLE DEVICES ARE LOCATED WITHIN 60" OF EACH OTHER, THEY SHALL BE ALIGNED VERTICALLY AS INDICATED ON SHEET 100. AT NO TIME SHALL DEVICES (SWITCH LEGS, THERMOSTATS, FIRE ALARM STROBES, AND SECURITY DEVICES) EXCEPT VOICE/DATA AND POWER OUTLETS, BE LOCATED IN OR NEAR THE CENTER OF A WALL, UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.

E6 ADDITIONAL FIRE ALARM DEVICES RECOMMENDED BY THE LOCAL FIRE MARSHAL SHALL BE REVIEWED AND LOCATED ONLY AFTER APPROVED BY THE ARCHITECT. THE CONTRACTOR SHALL REVIEW THE LOCATIONS OUTLINED ABOVE WITH THE FIRE MARSHAL AND ADD ADDITIONAL DEVICES TO ACHIEVE THE COVERAGE REQUIRED BY THE LOCAL JURISDICTION.

E7 MAINTAIN A 4" MINIMUM HORIZONTAL CLEARANCE IN ALL DIRECTIONS FROM THE EDGE OF A COVER PLATE OR DEVICE TRIM WHEN ADJACENT TO A WALL, COLUMN OR SIMILAR ELEMENT.

E8 ELECTRICAL COVER PLATES SHALL BE INSTALLED AFTER INSTALLATION OF ADJACENT FINISHES.

E9 WHERE ELECTRICAL OUTLETS, VOICE/DATA OUTLETS, LIGHTING AND LIGHT SWITCH ARE INDICATED TO REMAIN IN ROOMS OR AREAS UNAFFECTED BY THE RENOVATION, THE CONTRACTOR SHALL CONFIRM PROPER WORKING ORDER. ALL DEVICES WITHIN ROOM SHALL MATCH IN APPEARANCE.

E10 ALL ABANDONED CONDUIT AND VOICE/DATA CABLING IN CEILING PLENUM SHALL BE REMOVED.

E11 PROVIDE OUTLET BOX, CONDUIT TO PLENUM SPACE AND PULL STRING FOR ALL NEW VOICE/DATA OUTLETS.

E12 ALL SECURITY, AUDIO VISUAL, AND VOICE/DATA CABLING SHALL BE PLENUM RATED UNLESS HVAC INCORPORATES A DUCTED RETURN.

E13 COMMUNICATIONS CONTRACTOR SHALL FURNISH AND INSTALL VOICE/DATA CABLING. GENERAL CONTRACTOR SHALL COORDINATE SCHEDULING OF INSTALLATION OF VOICE/DATA CABLING WITH SELECTED SUB-CONTRACTOR. DAMAGE BY CABLING CONTRACTOR SHALL BE REPAIRED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

E14 ALL N60 ELECTRICAL DEVICES (SWITCH LEGS, OUTLETS, ETC.) AND THOSE EXISTING DEVICES SCHEDULED FOR REPLACEMENT SHALL BE GREY IN COLOR, EQUAL TO LEVITON. ALL COVER PLATES SHALL BE BRUSHED STAINLESS STEEL. WALL AND FURNITURE MOUNTED BOXES AND COVER PLATES FOR VOICE/DATA SHALL BE GREY. THIS NOTE SUPERSEDES ANY INFORMATION, SPECIFICATIONS, OR NOTES ON DRAWINGS IN ELECTRICAL SECTIONS.

E15 NEW OUTLETS ON COLUMNS WILL BE CENTERED ON FACE SHOWN, U.N.O.

E16 ELECTRICAL, DATA AND TELEPHONE WIRING AND CONDUIT SHALL BE CONCEALED IN PARTITIONS AND/OR CEILING. NO SURFACE MOUNTED CONDUIT OR DEVICES ARE ALLOWED.

E17 EXISTING OUTLETS WHICH ARE ABANDONED; EXISTING SERVICE SHALL BE REMOVED TO THE MAKE-UP BOX OR THE MAIN PANEL, U.N.O.

E18 CONVENIENCE RECEPTACLES SHALL BE BUILDING STANDARD DUPLEX TYPE, RATED 20 AMP, 125 VAC., GROUNDED TYPE, U.N.O.

E19 THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING.

E20 EXISTING LIGHTING BRANCH CIRCUITS MAY BE EXTENDED AND REUSED TO SERVE NEW LIGHTING. WHERE EXISTING LIGHTING CIRCUITS ARE INOPERABLE OR FOUND TO BE IN POOR CONDITION, THEY SHALL BE REPLACED. EXISTING WORK SHALL BE BROUGHT UP TO CODE AS REQUIRED. ENSURE NEW LIGHTING LOAD, COMBINED WITH EXISTING LOAD DOES NOT EXCEED 80% OF O.C.D. RATING.

E21 ELECTRICAL SWITCH AND OUTLET COVER PLATES SHALL BE INSTALLED AFTER INSTALLATION OF ADJACENT FINISHES.

E22 ADJACENT AREAS WILL REMAIN OCCUPIED DURING CONSTRUCTION. CONTRACTOR IS TO SCHEDULE ANY POWER OUTAGES DUE TO CONSTRUCTION WITH BUILDING MANAGER AND OWNER/TENANT PRIOR TO COMMENCING WORK.

E23 PROVIDE BLANK COVER PLATE AT EXISTING TELEPHONE/DATA BOX LEFT AFTER DEMOLITION, YET NOT IN INITIAL CONFIGURATION.

E24 ALL POWER CONDUCTORS SHALL BE COPPER TYPE THNN.

E25 MINIMUM WIRE GAUGE ON BRANCH CIRCUITS SHALL BE 12 GAUGE.

06 GENERAL ELECTRICAL NOTES

CT1 ROOMS/AREAS WITH ONLY ONE LIGHT FIXTURE, CORRIDORS, STOREROOMS, RESTROOMS, AND LOBBIES SHALL HAVE TOGGLE LIGHT SWITCHES, NO OCCUPANCY SENSORS REQUIRED, UNO.

CT2 ALL OTHER ROOMS/AREAS EXCEPT AS EXPRESSED ABOVE SHALL RECEIVE AN AUTOMATIC WALL SWITCH (OCCUPANCY SENSOR WITH OVERRIDE). SWITCH SHALL BE LOCATED AS TO BEST MONITOR OCCUPANT, OTHERWISE CEILING MOUNT OCCUPANCY SENSOR WITH TOGGLE SWITCH SHALL BE REQUIRED.

CT3 OFFICES LARGER THAN 250 SF SHALL RECEIVE CEILING MOUNTED OCCUPANCY SENSOR WITH TOGGLE OVERRIDE SWITCH. QUANTITY OF SENSORS TO BE DETERMINED BY MANUFACTURER. THIS OPTION MUST INCLUDE A POWER PACK. MAXIMIZE NUMBER OF SENSORS PER POWER PACK. DEFAULT TIME DELAYS SHALL BE 15 MINUTES OR LESS, U.N.O.

CT4 OPEN AREAS 2500 SF OR LARGER SHALL BE ZONED SEPARATELY.

CT5 CONTRACTOR SHALL SET/ADJUST AND VERIFY OCCUPANCY SENSOR COVERAGE.

02 LIGHTING CONTROLS OCCUPANCY SENSOR

EL1 THE CONTRACTOR SHALL PROVIDE LIGHTING FIXTURES AND ELECTRICAL WORK AS SHOWN ON DRAWINGS AND NOTES. LIGHTING SHALL BE LOCATED AND SWITCHED PER REFLECTED CEILING PLAN. NOTIFY ARCHITECT OF ANY CONFLICTS OF LIGHT FIXTURE LOCATIONS WITH MAIN TEES, DUCTS, STRUCTURES, HVAC, ETC.

EL2 THE CONTRACTOR SHALL COORDINATE HIS WORK WITH MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION.

EL3 THE WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, IECC 2009, AND OTHER AUTHORITIES HAVING JURISDICTION.

EL4 NEW MATERIALS SHALL CONFORM WITH THE STANDARDS OF UNDERWRITERS LABORATORIES, INC. OR OTHER ACCEPTABLE TESTING AUTHORITY IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED.

EL5 PROPOSALS SHALL BE BASED UPON FURNISHING AND INSTALLING NEW LIGHTING FIXTURES AND REMOVING AND REINSTALLING EXISTING LIGHTING FIXTURES OF TYPES AND MANUFACTURERS AS SCHEDULED OR SPECIFIED.

EL6 EXISTING RELOCATED AND EXISTING TO REMAIN FLUORESCENT FIXTURES SHALL BE REFURBISHED, CLEANED AND DIM AND BURNT-OUT LAMPS REPLACED. ALL NEW AND EXISTING LAMP COLOR AND WATTAGE TO MATCH.

EL7 THE GENERAL AND ELECTRICAL CONTRACTORS SHALL CHECK CEILING HEIGHTS AND CEILING PLENUM CONDITIONS FOR CLEARANCE OF DUCTWORK, LIGHTING AND OTHER OBSTRUCTIONS TO ASSURE THE FINISHED CEILING HEIGHT SHOWN ON DRAWINGS. DISCREPANCIES WILL BE BROUGHT TO THE ARCHITECTS ATTENTION.

EL8 RECESSED FIXTURES SHALL BE SET FLUSH INTO CEILINGS, INCLUDE THERMAL PROTECTION AND HAVE ADEQUATE CLEARANCE IN PLENUM/ATTIC.

EL9 THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMMUNICATION CABLING REQUIREMENTS WITH THE TENANT COMMUNICATION CABLING CONTRACTOR.

EL10 THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND ELECTRICAL SERVICE FOR TRADES.

EL11 ALL DEVICES AND LIGHT FIXTURES SHALL BE LOCATED AS DIMENSIONED ON THE PLANS.

EL12 PROVIDE EMERGENCY EGRESS/NITE LIGHTING SPACED PER NEC AND LOCAL CODE.

EL13 ALL NEW SWITCHES, SENSORS AND OTHER DEVICES SHALL BE GRAY SIMILAR TO LOVITON. ALL COVER PLATES SHALL BE BRUSHED STAINLESS STEEL.

EL14 ALL CONDUCTORS SHALL BE COPPER TYPE THHN.

EL15 MINIMUM SWITCHES WIRE GAUGE SHALL BE 12.

EL16 ENSURE THAT ANY MODIFICATION TO EXISTING LIGHTING BRANCH CIRCUITS DO NOT RESULT IN AN IMPOSED LOAD EXCEEDING 80% OF O.C.D. RATING.

09 GENERAL LIGHTING NOTES

PL1 THE CONTRACTOR SHALL SUPPLY PLUMBING ROUGH-INS, FIXTURES AND ACCESSORIES INDICATED IN CONSTRUCTION PLANS, SPECIFICATIONS AND DETAIL DRAWINGS.

PL2 THE CONTRACTOR SHALL SUBMIT CUT SHEETS OF NEW FIXTURES, FITTINGS, AND ACCESSORIES TO THE ARCHITECT FOR REVIEW.

PL3 THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION AND WITH OTHER TRADES. WHERE INDICATED, ALL MOUNTING HEIGHTS, CLEARANCES AND FIXTURE HARDWARE SHALL COMPLY WITH TAS AND ADAAG.

PL4 EXISTING PLUMBING BEING ABANDONED SHALL BE CAPPED AT ITS SOURCE. EXISTING SURFACES SHALL BE PATCHED TO MATCH EXISTING SURROUNDING SURFACES IN MATERIAL AND FINISH. THE CONTRACTOR SHALL ALSO INCLUDE, IN THE ESTIMATE A PRICE FOR CEILING REMOVAL AND REINSTALLATION FOR PLUMBING WORK IN CEILING PLENUM OF FLOOR BELOW TO COMPLETE WORK ON FLOOR BEING RENOVATED.

PL5 FURNISH VALVES FOR THE PROPER CONTROL OF FIXTURES, LINE OR PIECE OF APPARATUS SO THAT IT MAY BE SHUT OFF FOR REPAIR WITH OUT INTERFERENCE OR INTERRUPTION OF THE SERVICE TO THE REST OF THE BUILDING.

PL6 BEFORE BEING COVERED UP OR BUILT-IN, PIPING SHALL BE TESTED PER THE AUTHORITIES HAVING JURISDICTION.

PL7 INSULATE EXPOSED HOT WATER LINES AND DRAIN PIPES WHERE ACCESSIBLE PROVISIONS HAVE BEEN MADE.

PL8 INSULATE ALL CONCEALED COLD WATER LINES TO ELIMINATE CONDENSATION.

08 GENERAL PLUMBING NOTES

FA1 IF THE BUILDING IS EQUIPPED WITH A FIRE ANNUNCIATION SYSTEM, PROVIDE AN EMERGENCY WARNING SYSTEM CONSISTING OF BOTH AUDIBLE AND VISUAL ALARMS COMPLYING WITH THE ADA/TAS GUIDELINES. VISUAL ALARMS SHALL BE PROVIDED IN EACH OF THE FOLLOWING AREAS (E.G. CONFERENCE ROOMS, CORRIDORS, LOBBIES, RESTROOMS, WORK ROOMS, STORAGE ROOMS, FILE ROOMS AND ANY OTHER AREA OF COMMON USE.) IF PROVIDED, AUDIBLE EMERGENCY ALARMS SHALL PRODUCE A SOUND THAT EXCEEDS THE PREVAILING SOUND LEVEL IN THE ROOM OR SPACE AT LEAST 15 DBA OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 DBA, WHICHEVER IS LOUDER. SOUND LEVELS SHALL NOT EXCEED 120 DBA. VISUAL ALARM SIGNAL APPLIANCES SHALL BE INTEGRATED INTO THE BUILDING ALARM SYSTEM. LAMP SHALL BE XENON STROBE TYPE OR EQUAL. COLOR SHALL BE CLEAR OR NOMINAL WHITE. MAXIMUM PULSE SHALL BE TWO-TENTHS OF ONE SECOND WITH A MAXIMUM DUTY CYCLE OF 40 PERCENT. INTENSITY SHALL BE A MINIMUM OF 75 CANDELA. THE FLASH RATE SHALL BE A MINIMUM OF 1 HZ. AND A MAXIMUM OF 3 HZ. THE APPLIANCE SHALL BE PACED 80 INCHES ABOVE THE HIGHEST FLOOR LEVEL OR CEILING, WHICHEVER IS LOWER. IN GENERAL, NO PLACE IN ANY ROOM OR SPACE REQUIRED TO HAVE A VISUAL SIGNAL APPLIANCE SHALL BE MORE THAN 50 FEET FROM THE SIGNAL APPLIANCE.

FA2 MODIFICATIONS TO FIRE ALARM MUST BE MADE BY FIRM SERVICING BUILDING SYSTEM. CONTACT BUILDING MANAGER FOR NAME OF FIRM. ALL NEW DEVICES TO BE COMPATIBLE WITH EXISTING SYSTEM.

FA3 REFER SPECIAL SYSTEMS SHEET HEREIN FOR EXISTING AND NEW FIRE ALARM DEVICE PLACEMENT.

FA4 IN AREAS WHERE DEMOLITION AND/OR CONSTRUCTION OCCURS, COVER SMOKE DETECTORS DURING WORK. ENSURE DETECTORS ARE UNCOVERED AT THE END OF EACH WORK PERIOD.

05 FIRE ALARM REQUIREMENTS

LS1 PROVIDE ALL CODE REQUIRED LIFE SAFETY DEVICES AS DETAILED IN PROJECT DOCUMENTS AND ANY ADDITIONAL DEVICES REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

LS2 PROVIDE AND LOCATE EXIT SIGNS PER THE REFLECTED CEILING PLAN AND THOSE ADDITIONAL SIGNS, IF ANY, THAT ARE REQUIRED AS A RESULT OF MUNICIPAL PLAN REVIEW OR INSPECTION.

LS3 PROVIDE EXIT SIGNS AS SPECIFIED HEREIN. IF EXISTING EXIT SIGNS ARE TO REMAIN, MATCH EXISTING WITH NEW SIGNS.

04 LIFE SAFETY REQUIREMENTS

FP1 WHEN BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM, THE CONTRACTOR SHALL UTILIZE THE EXISTING PIPING SYSTEM AND SPRINKLER HEADS WHERE POSSIBLE. MODIFY THE EXISTING PIPING AND HEADS AS REQUIRED TO PROVIDE THE APPROVED COVERAGE UNDER THE DIRECTION OF A FIRE SUPPRESSION ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS BEING CONSTRUCTED.

FP2 ALL SPRINKLER HEADS SHALL RECEIVE ESCUTCHEONS. NEW HEADS AND ESCUTCHEONS SHALL MATCH THE EXISTING, U.N.O.

03 FIRE PROTECTION REQUIREMENTS

IE1 THE WORK SHALL CONFORM TO THE INTERNATIONAL ENERGY CONSERVATION CODE 2009 AND OTHER RELATED LOCAL CODES. VERIFY THAT THE CITY IN WHICH THE WORK IS CONDUCTED HAS NOT AUGMENTED IECC WITH MORE STRINGENT CODES ESTABLISHED BY ORDINANCE.

IE2 LIGHTING WORK: SWITCHING, FIXTURE TYPES, LAMP/BALLASTS, AND CONTROLS. ARCHITECT'S DRAWING PRESENTS CONCEPT ONLY. FINAL DESIGN SHALL EITHER BE PROVIDED IN ENGINEERING SECTION OR DOCUMENTS, OR BE PROVIDED BY SUB-CONTRACTOR AND SHALL BE APPROVED BY BUILDING MANAGEMENT.

IE3 MECHANICAL WORK: DUCTWORK CONSTRUCTION AND INSULATION, CONTROLS, OUTDOOR AIR-VENTILATION, AND PIPE INSULATION. PER DETAILS AND SPECIFICATIONS SHA… COMPLY WITH IECC 2009. IN THE ABSENCE OF ENGINEERING DETAILS, THE CONTRACTOR SHA… ENSURE COMPLIANCE.

IE4 ENVELOPE WORK: WHEN REQUIRED, MODIFICATIONS TO EXTERIOR WALLS, DOORS AND WINDOWS SHALL COMPLY WITH ENVELOPE REQUIREMENTS OR IECC 2009.

01 IECC CODE REQUIREMENTS

ALEXANDER KIENAST SCHNITZ
ARCHITECTURE & INTERIOR DESIGN
13601 PRESTON RD, SUITE 107W
DALLAS, TX 75240
P: 972.233.3506
F: 972.233.3525
Email: akstexas@akstexas.com
Web: www.akstexas.com

REGISTERED ARCHITECT
JAGER W. KIENAST
1-28-13
STATE OF TEXAS

REVISIONS

DATE: 01.28.13

PROJECT NO: 1220

ISSUED FOR: PERMIT,PRICING & CONSTRUCTION

All drawings & written materials appearing herein constitute original unpublished work, & may not be duplicated, used or disclosed without written consent of ALEXANDER + KIENAST + SCHNITZ, LLC.

GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

GENERAL NOTES

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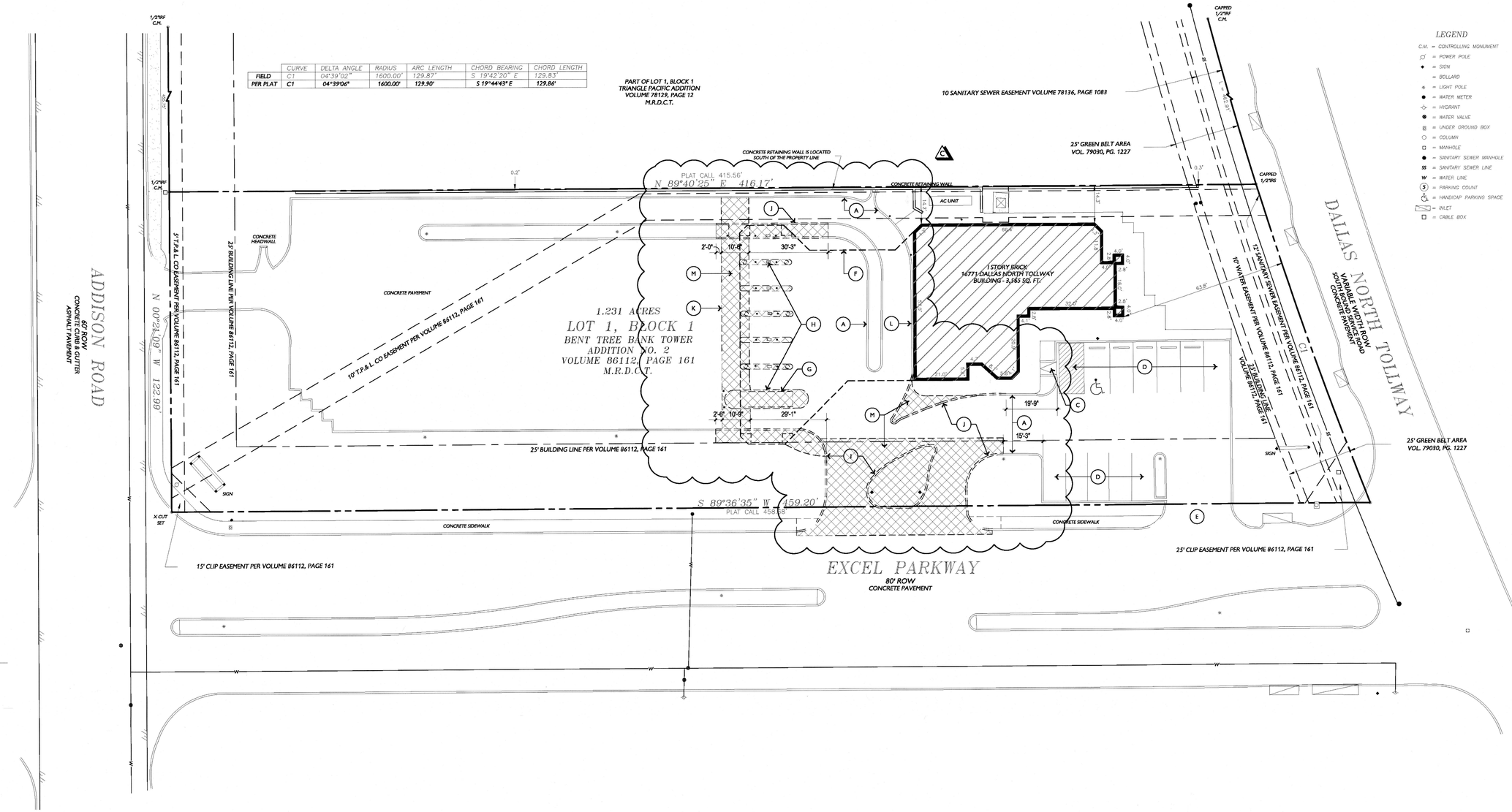

	CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
FIELD	C1	04°39'02"	1600.00'	129.87'	S 19°42'20" E	129.83'
PER PLAT	C1	04°39'06"	1600.00'	129.90'	S 19°44'43" E	129.86'

LEGEND

- C.M. = CONTROLLING MONUMENT
- = POWER POLE
- = SIGN
- = BOLLARD
- = LIGHT POLE
- = WATER METER
- = HYDRANT
- = WATER VALVE
- = UNDER GROUND BOX
- = COLUMN
- = MANHOLE
- = SANITARY SEWER MANHOLE
- SS = SANITARY SEWER LINE
- W = WATER LINE
- (S) = PARKING COUNT
- = HANDICAP PARKING SPACE
- = INLET
- = CABLE BOX

PLAN NOTES

(A) EXISTING CURBS TO REMAIN.
(B) EXISTING SIDEWALK TO REMAIN.
(C) EXISTING ACCESSIBLE RAMP TO REMAIN.
(D) EXISTING PARKING SPACES TO REMAIN.
(E) EXISTING DRIVE TO REMAIN.
(F) DEMO EXISTING OVERHEAD DRIVE-IN CANOPY.
(G) DEMO EXISTING ATM BRICK BUILDING.
(H) DEMO EXISTING DRIVE LANES, BANK EQUIPMENT, BOLLARDS & CANOPY COLUMNS.
(J) DEMO EXISTING CURBS.
(K) EXTENT OF CONCRETE DRIVE DEMOLITION, REFER SITE PLAN, SHEET 110.
(L) PROTECT BRICK EXTERIOR WALL DURING DEMOLITION.
(M) SAWCUT AND REMOVE PORTIONS OF EXISTING PAVING/LANDSCAPE AS SHOWN. REFER TO SITE PLAN, SHEET 110 FOR EXTENT OF NEW WORK. 2

01 SITE PLAN - DEMOLITION
SCALE: 1" = 20'-0"

NORTH

NOTE:
THIS DRAWING HAS BEEN SCALED FROM EXISTING RECORD PRINTS, RECORD ELECTRONIC MEDIA, PROVIDED BY THE CLIENT AND/OR OTHERS. ALLOWANCES HAVE BEEN MADE IN THE DESIGN FOR LACK OF EXACT DIMENSIONS. HIDDEN CONDITIONS MAY REQUIRE ADJUSTMENT TO THE APPROVED DESIGN.

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REGISTERED ARCHITECT
JACK W. KIENAST
9384
STATE OF TEXAS
03.01.13

REVISIONS
2 REVISIONS PER CITY COMMENTS 03.01.13

DATE:
01.28.13
PROJECT NO:
1220
ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

SITE PLAN - DEMOLITION

100

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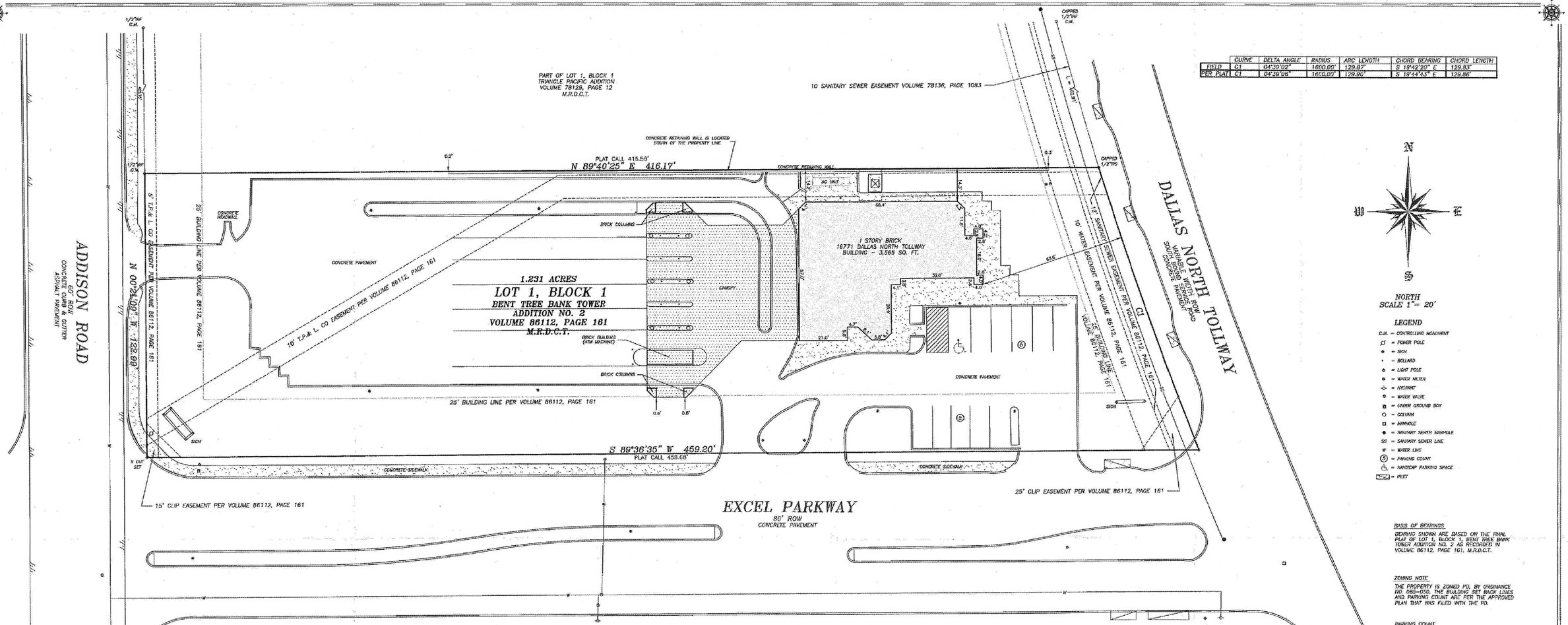

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SCALE 1" = 20'

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- = HANDICAP PARKING SPACE
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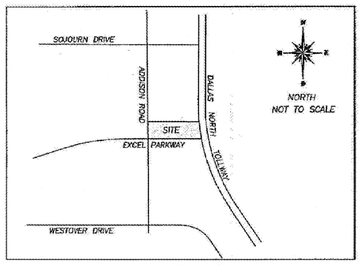
BASIS OF BEARINGS:
BEARING SHOWN ARE BASED ON THE FINAL PLAT OF LOT 1, BLOCK 1, BENT TREE BANK TOWER ADDITION NO. 2 AS RECORDED IN VOLUME 86112, PAGE 161, M.R.D.C.T.

ZONING NOTE:
THE PROPERTY IS ZONED PD, BY ORDINANCE NO. 086-050. THE BUILDING SET BACK LINES AND PARKING COUNT ARE PER THE APPROVED PLAN THAT WAS FILED WITH THE PD.

PARKING COUNT
1 SPACE PER 300 SQ. FT. OF OFFICE SPACE

PARKING PROVIDED:
10 PARKING SPACES
1 HANDICAP PARKING SPACE
11 TOTAL PARKING SPACE



LOCATION MAP

LEGAL DESCRIPTION

BEING all of Bent Tree Bank Tower Addition, No. 2, an Addition to the City of Addison, Dallas County, Texas, according to the Plat thereof recorded in Volume 86112, Page 161, Map Records, Dallas County, Texas.

SURVEYOR'S CERTIFICATION

TO (name of insured, if known), (name of lender, if known) (name of insurer, if known, (name of others as negotiated with the client):

This is to certify that this map or plat and the survey on which it is based were made accordance with the 2011 Minimum Standards Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established by ALTA and NSPS, and includes Items 1, 2, 3, 4, 6 (b), 7 (b) (1), 8, 9, 11 (a), 13, and 14 of Table A thereof. The field work was completed on October 13, 2011.

DAVID J. SURDUKAN
R.P.L.S. No. 4613

11/1/11
DATED

STATE OF TEXAS
REGISTERED
DAVID J. SURDUKAN
4613
PROFESSIONAL
LAND SURVEYOR

INCLUDED FOR INFORMATIONAL PURPOSES ONLY.

ALTA/ACSM LAND TITLE SURVEY
LOT 1, BLOCK 1
BENT TREE BANK TOWER ADDITION NO. 2
CITY OF ADDISON
DALLAS COUNTY, TEXAS

G.F. No. 4713000102

SURDUKAN SURVEYING, INC.
P.O. BOX 121
ANNA, TEXAS 75409
(972) 924-8200

SCALE 1" = 20' DATE: NOVEMBER 1, 2011 JOB No. 2011-84

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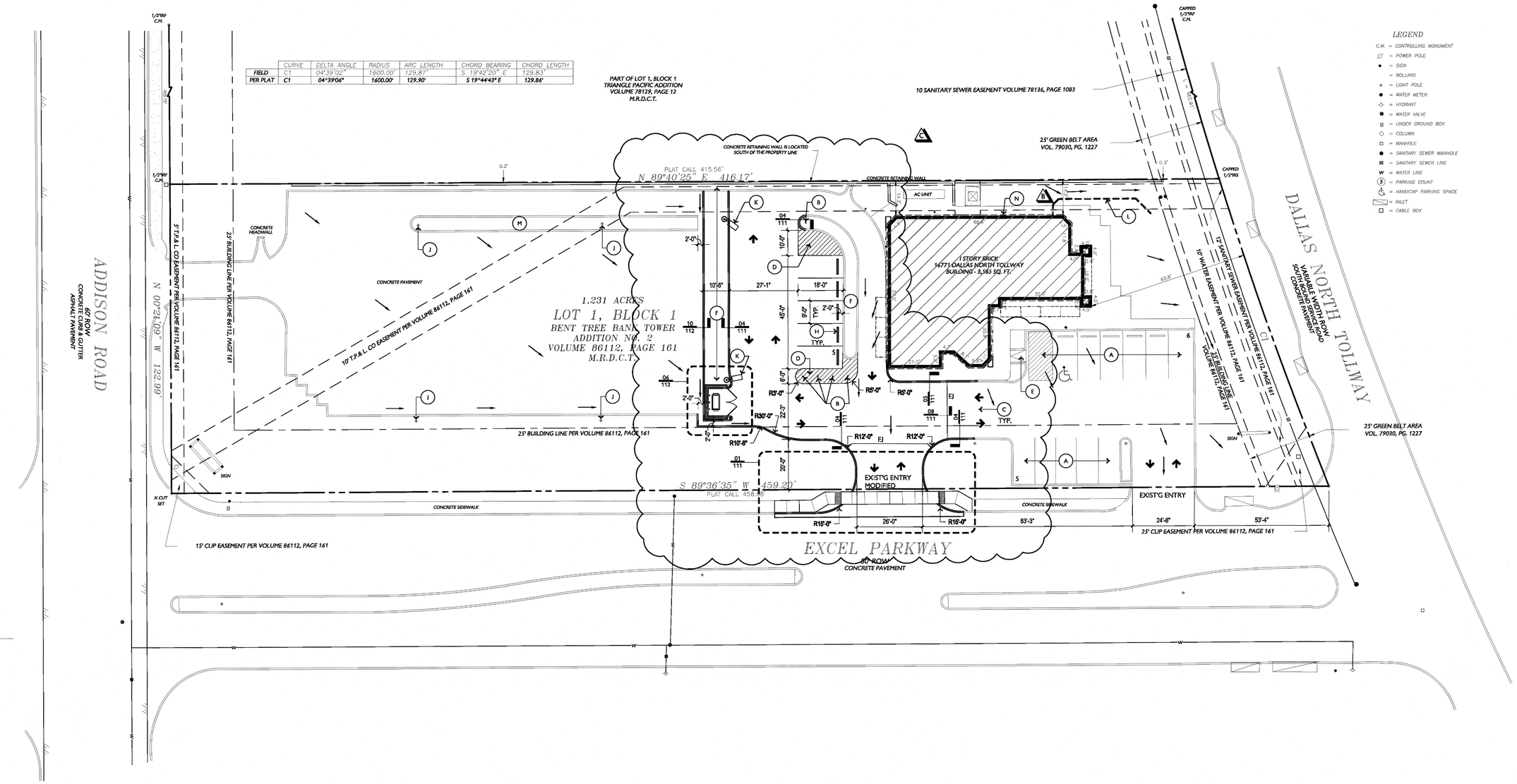

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- = INLET
- = CABLE BOX

PLAN NOTES

- (A) EXISTING PARKING SPACES TO REMAIN.
- (B) PROVIDE 6" PIPE BOLLARD, REF. DTL. 112.05 — C
- (C) PAINT DIRECTIONAL ARROWS - TYP.
- (D) PROVIDE 4" WIDE STRIPPING, PAINT WHITE. — C
- (E) EXISTING ACCESSIBLE CURB RAMP TO REMAIN.
- (F) MAKE AREA READY TO RECEIVE NEW PLANTING & IRRIGATION.
- (G) NEW SIDEWALK.
- (H) NEW 6" x 8' CONCRETE WHEEL STOPS.
- (J) EXISTING LIGHT POLE TO REMAIN.
- (K) PROVIDE NEW LIGHT POLE & CONCRETE BASE TO MATCH EXISTING. REFER DETAIL 04/112.
- (L) EXTEND ROOF DRAIN UNDER SIDEWALK THROUGH PLANTER AREA TO FRONT YARD.
- (M) EXISTING PLANTING TO REMAIN. REPAIR IRRIGATION.
- B (N) REMOVE & REPLACE SELF-LEVELLING SEALANT BETWEEN SIDEWALK & BUILDING. ALL SIDES.

SITE STATISTICS:

LEGAL: BEING ALL OF BENT TREE BANK TOWER ADDITION, NO. 2, AN ADDITION TO THE CITY OF ADDISON, DALLAS COUNTY, TEXAS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 86112, PAGE 161, MAP RECORDS, DALLAS COUNTY, TEXAS

LOT: 53,610 SQ. FT. (1.231 AC.)
ZONING: PD (PLANNED DEVELOPMENT)

BUILDING AREA: 3,567 SQ. FT.

PARKING SPACES REQUIRED (1:300):	11
ACCESSIBLE (VAN):	1
TOTAL:	12
PARKING SPACES PROVIDED:	15
ACCESSIBLE (VAN):	1
TOTAL:	16

01 SITE PLAN

SCALE: 1" = 20'-0"

NORTH

SITE INFORMATION TAKEN FROM TAYLOR-HEWLWTT, INC. DRAWINGS DATED 08.15.85 USED IN ORIGINAL CONSTRUCTION AND ALTA SURVEY BY SURDUKAN SURVEYING, INC. DATED 11.01.11

NOTE:
THIS DRAWING HAS BEEN SCALED FROM EXISTING RECORD PRINTS, RECORD ELECTRONIC MEDIA PROVIDED BY THE CLIENT AND/OR OTHERS. ALLOWANCES HAVE BEEN MADE IN THE DESIGN FOR LACK OF EXACT DIMENSIONS, HIDDEN CONDITIONS MAY REQUIRE ADJUSTMENT TO THE APPROVED DESIGN.

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REGISTERED ARCHITECT
JACK W. KIENAST
9384
STATE OF TEXAS
03.01.13

REVISIONS

B	REVISIONS PER ADDENDUM #2	02.06.13
C	REVISIONS PER CITY COMMENTS	03.01.13

DATE: 01.28.13
PROJECT NO: 1220
ISSUED FOR: PERMIT, PRICING & CONSTRUCTION

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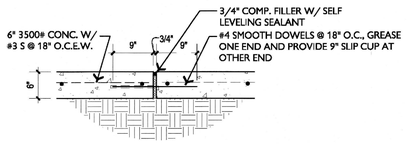
GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

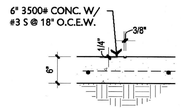
SITE PLAN

110

J:\dwg\2012\1220 - Greenbank Dallas North Tollway\Sheets\100 - Site\110 SITE PLAN.dwg Mar 01, 2013 03:42pm AKS-112-PC



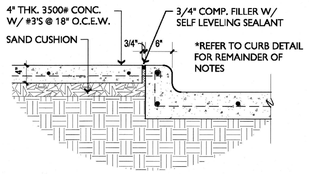
08 EXPANSION JOINT AT DRIVE
SCALE: 3/4" = 1'-0"



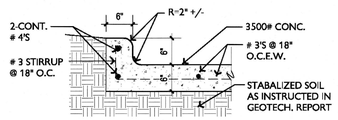
07 CONTROL JOINT AT DRIVE
SCALE: 3/4" = 1'-0"

06 NOT USED
SCALE:

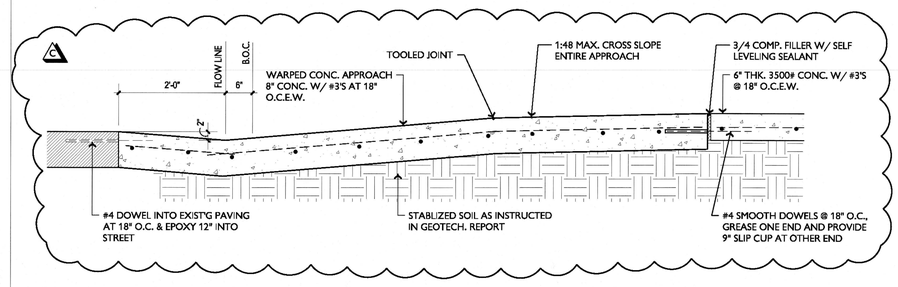
09 NOT USED
SCALE:



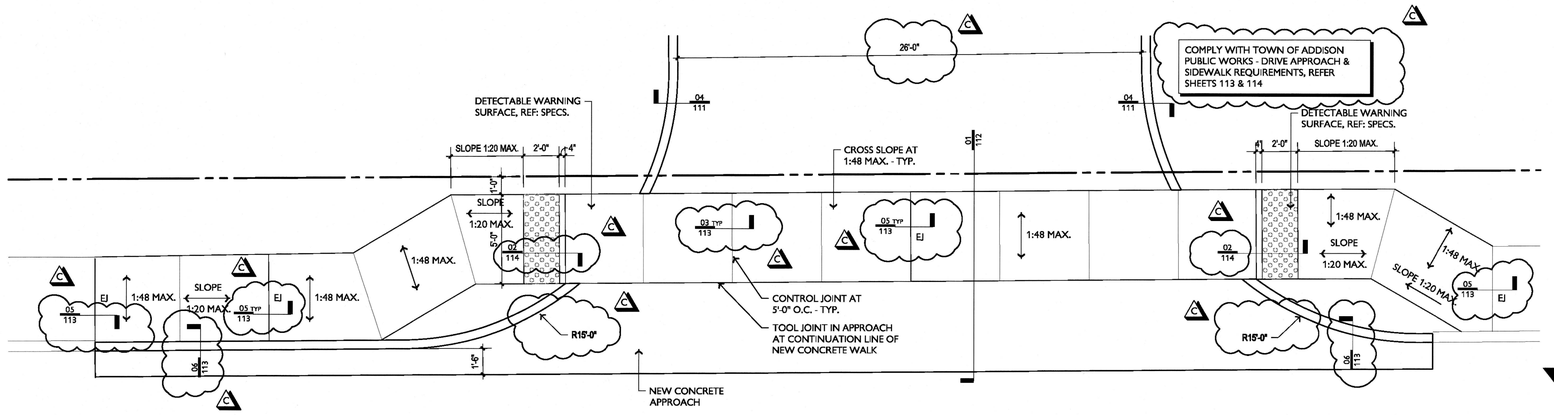
05 CURB DETAIL AT SIDEWALK
SCALE: 3/4" = 1'-0"



04 CURB DETAIL
SCALE: 3/4" = 1'-0"



03 PAVING DETAIL AT APPROACH
SCALE: 3/4" = 1'-0"



01 LARGE SCALE ENTRY DRIVE
SCALE: 1/4" = 1'-0"

02 NOT USED
SCALE:

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03.01.13

REVISIONS
REVISIONS PER CITY COMMENTS 03.01.13

DATE: 01.28.13
PROJECT NO: 1220
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SITE PAVING DETAILS

111

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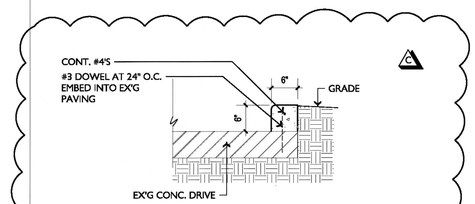
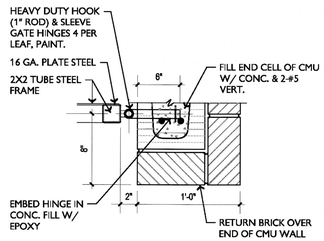
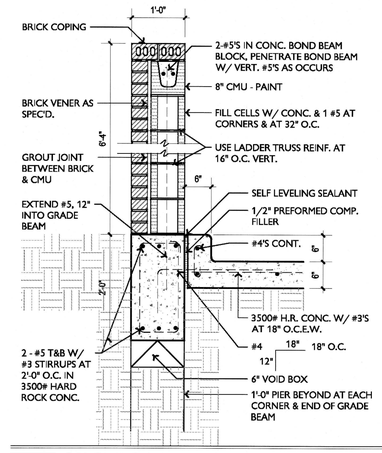
11 OPEN
SCALE:



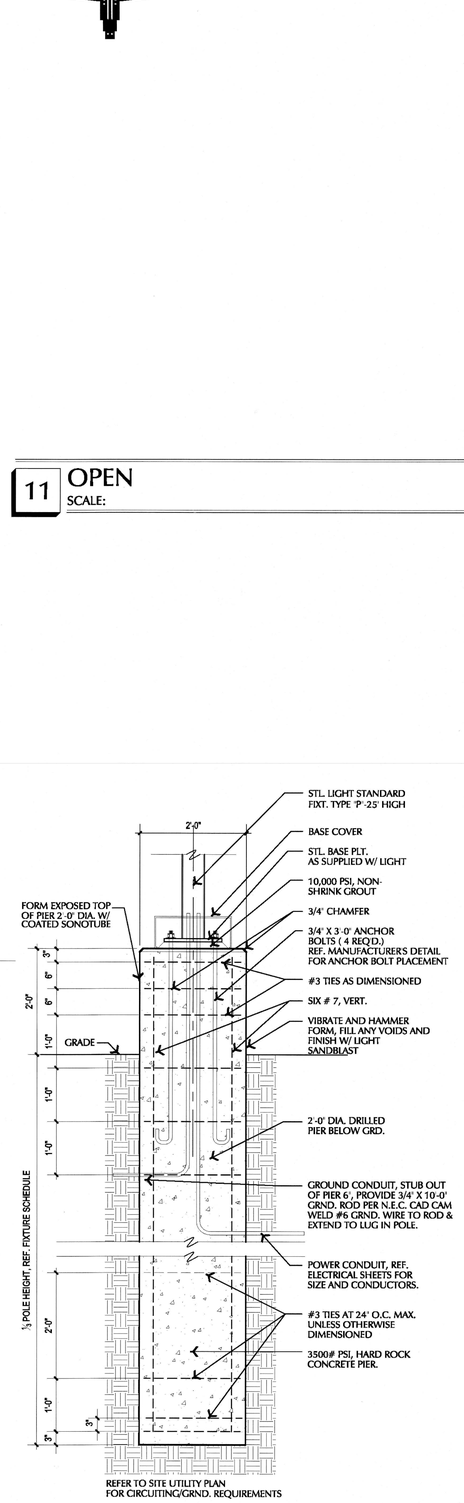
10 CURB DETAIL AT EX'G DRIVE
SCALE: 3/4" = 1'-0"



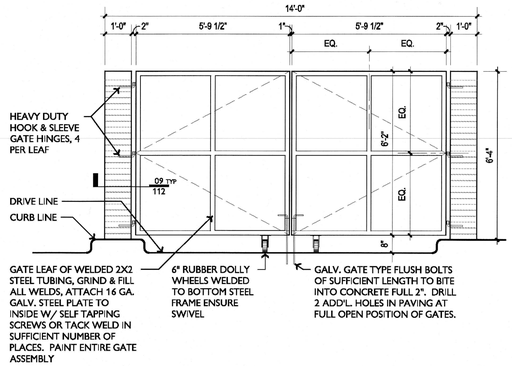
09 GATE DETAIL
SCALE: 1 1/2" = 1'-0"



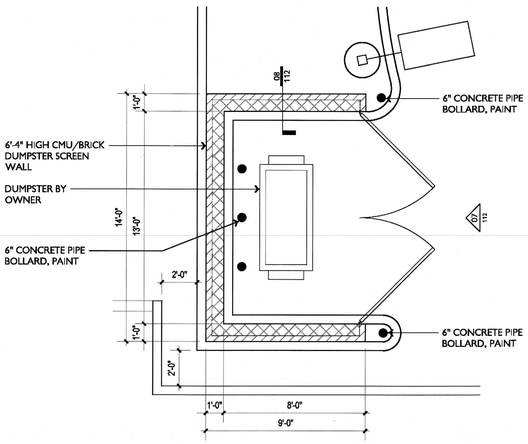
08 SECTION
SCALE: 3/4" = 1'-0"



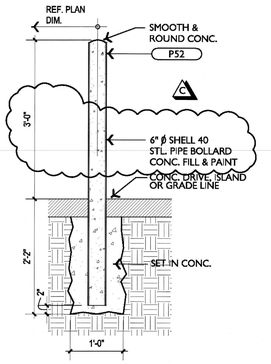
04 LIGHT POLE DETAIL
SCALE: 3/4" = 1'-0"



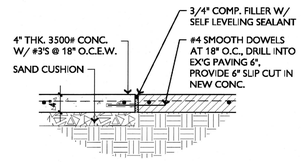
07 ELEVATION
SCALE: 3/8" = 1'-0"



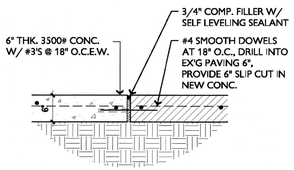
06 LARGE SCALE DUMPSTER ENCLOSURE
SCALE: 1/4" = 1'-0"



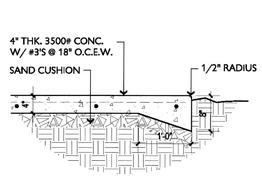
05 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



03 EXPANSION JOINT AT SIDEWALK
SCALE: 3/4" = 1'-0"



02 EXPANSION JOINT AT DRIVE
SCALE: 3/4" = 1'-0"



01 SIDEWALK DETAIL AT EDGE
SCALE: 3/4" = 1'-0"

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SITE PAVING/ DUMPSTER ENCLOSURE DETAILS

112

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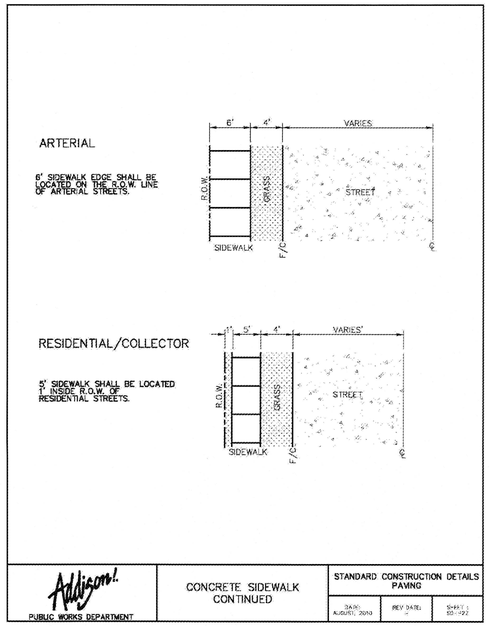


Addison! PUBLIC WORKS DEPARTMENT

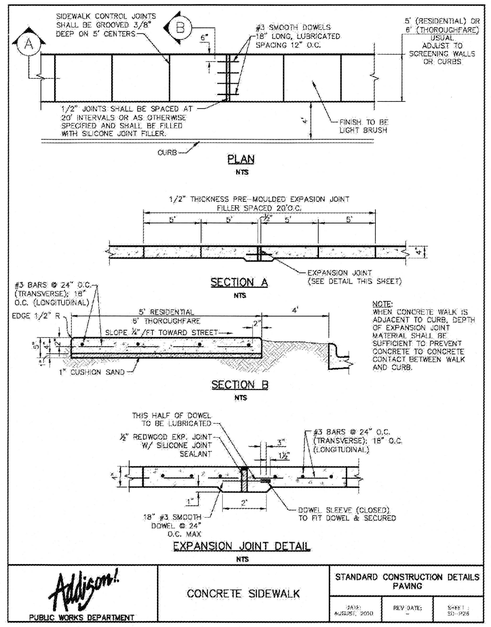
CONCRETE SIDEWALK CONTINUED

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-727

08 CONCRETE SIDEWALK DETAILS

SCALE:



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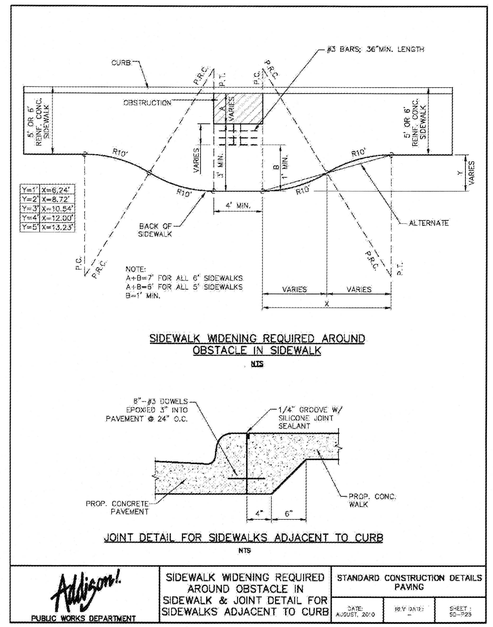
CONCRETE SIDEWALK

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-728

07 CONCRETE SIDEWALK DETAILS

SCALE:



Addison! PUBLIC WORKS DEPARTMENT

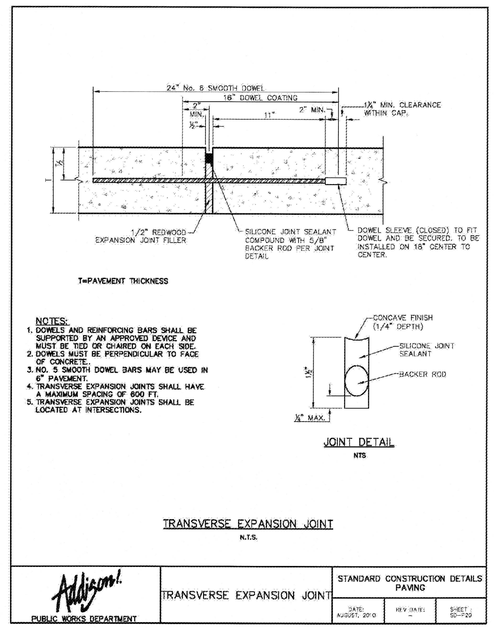
SIDEWALK WIDENING REQUIRED AROUND OBSTACLE IN SIDEWALK & JOINT DETAIL FOR SIDEWALKS ADJACENT TO CURB

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-729

06 SIDEWALK DETAIL

SCALE:



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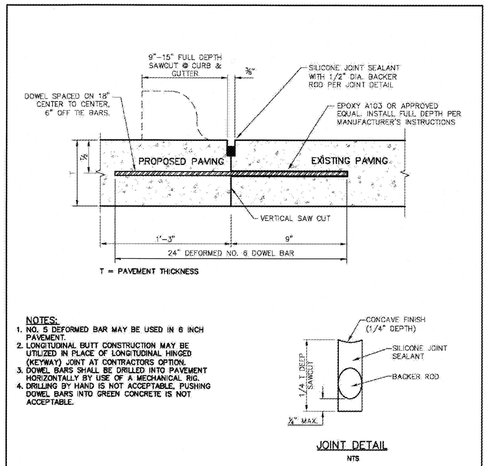
TRANSVERSE EXPANSION JOINT

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-722

05 EXPANSION JOINT DETAIL

SCALE:



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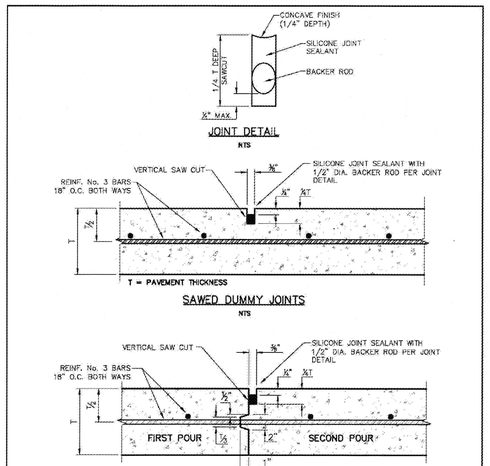
LONGITUDINAL BUTT JOINT

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-916

04 BUTT JOINT DETAIL

SCALE:



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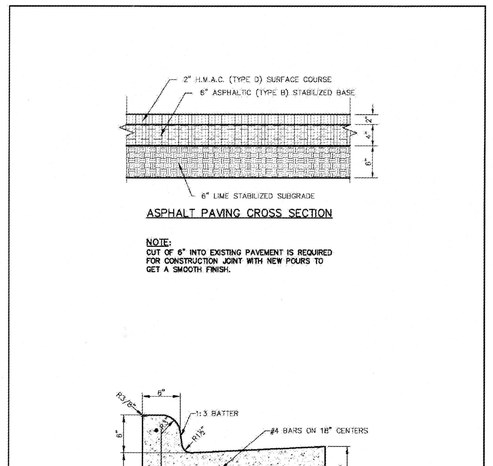
JOINT DETAILS

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-915

03 JOINT DETAILS

SCALE:



Addison! PUBLIC WORKS DEPARTMENT

CURB AND GUTTER & ASPHALT PAVING CROSS SECTION

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-908

02 CURB & GUTTER PAVING SECTION

SCALE:

PAVING – GENERAL NOTES

1. GENERAL:
   PAVEMENT THICKNESS IS AS SHOWN IN ITEM 7. SUBGRADE DESIGN SHALL CONFORM TO TOWN OF ADDISON PUBLIC WORKS REQUIREMENTS IN ITEM 3, AND SHALL EXTEND 12" MIN. BEHIND THE BACK OF CURB.
2. REINFORCED CONCRETE PAVEMENT:
   A. CONCRETE STRENGTH SHALL BE AS SHOWN IN ITEM 7 (NCTCOG LATEST EDITION).
   B. ALL CURBS SHALL BE INTEGRAL WITH PAVEMENT AND SHALL BE OF THE SAME STRENGTH AS CONCRETE PAVEMENT.
   C. DETAIL AND ARRANGEMENT OF PAVEMENT JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE TOWN STANDARD CONSTRUCTION DETAILS.
   D. BAR LAPS SHALL BE THIRTY DIAMETERS.
   E. REINFORCING STEEL SHALL BE #3 REBAR (3/8") ON 18" CENTERS FOR 8" OR LESS. #4 FOR 10" OR ABOVE
3. SUBGRADE:
   SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED WITH AT LEAST 30 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED. SEE NCTCOG ITEM 301.2 "LIME TREATMENT". FLEXIBLE BASE (CRUSHED STONE/CONCRETE) PER NCTCOG ITEM 301.5 MAY BE SUBSTITUTED FOR LIME TREATMENT WITH THE APPROVAL OF THE TOWN ENGINEER.
4. REBAR SHALL BE SUPPORTED BY BAR CHAIRS OR OTHER DEVICES APPROVED BY TOWN ENGINEER.
5. NO TRAFFIC ON FINISHED SUBGRADE SHALL BE PERMITTED AFTER REINFORCING STEEL IS INSTALLED ABOVE SUBGRADE. NO TRAFFIC SHALL BE PERMITTED BEFORE OR DURING THE PLACING OF CONCRETE.
6. CROSS SLOPE OF STRAIGHT CROWN STREETS SHALL BE 1/4" PER FOOT UNLESS APPROVED BY THE TOWN ENGINEER.
7. PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS:
   MAJOR ARTERIAL – 10" CLASS "P1" OR "P2."
   MINOR ARTERIAL – 8" CLASS "P1" OR "P2."
   COMMERCIAL/INDUSTRIAL COLLECTOR – 8" CLASS "P1" OR "P2."
   RESIDENTIAL COLLECTOR – 8" CLASS "P1" OR "P2."
   RESIDENTIAL LOCAL – 8" CLASS "P1" OR "P2."
   SIDEWALK AND RFR'S – 4"–CLASS "A"
   DRIVE APPROACH–8"–CLASS "P2"
   ALLEY–6" CLASS "P1" OR "P2."
8. CONCRETE MIX DESIGN SHALL BE AS DEFINED BY NCTCOG 303.3.
9. ALL MEDIANS AND PARKWAYS SHALL BE PROVIDED WITH BERMUDA GROUND COVER.
10. ONCE A CURB ABUTTING A THOROUGHFARE HAS BEEN SAWCUT AND REMOVED, THE CONTRACTOR MUST REPLACE THE CONCRETE WITH A NEW POUR (i.e. DRIVEWAY) WITHIN 14 CALENDAR DAYS. LIQUIDATED DAMAGES WILL BE ASSESSED AT $500 PER DAY FOR EACH CALENDAR DAY IN EXCESS OF 14 CALENDAR DAYS. PAYMENT SHALL BE MADE PRIOR TO ACCEPTANCE OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
11. ALL SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% AND A MAXIMUM CROSS SLOPE OF 2%
12. ALLEYS AND DRIVEWAYS
    A. CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECT. WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLAN.
    B. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO PARABOLIC STREET PAVEMENT.

Addison! PUBLIC WORKS DEPARTMENT

PAVING GENERAL NOTES

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 | REV DATE: - | SHEET: SD-901

01 PAVING GENERAL NOTES

SCALE:

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ADDISON ROW PAVING DETAILS
NEW SHEET
113

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08 OPEN
SCALE:

07 OPEN
SCALE:

06 OPEN
SCALE:

05 OPEN
SCALE:

ALEXANDER KIENAST SCHNITZ
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INTERIOR DESIGN
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Web: www.akstexas.com

REGISTERED ARCHITECT
MAC W. KIENAST
9384
STATE OF TEXAS
03.01.13

REVISIONS
1 REVISIONS PER CITY COMMENTS 03.01.13

DATE:
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ISSUED FOR:
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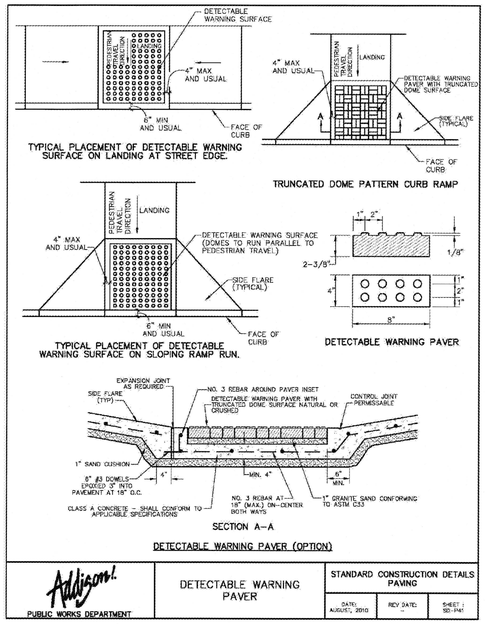


Addison! PUBLIC WORKS DEPARTMENT	DETECTABLE WARNING PAVER	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-P41

GENERAL NOTES FOR PEDESTRIAN FACILITIES

1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
2. LANDINGS SHALL BE 5'X5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
3. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4'X4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
4. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%
5. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE, OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED. OTHERWISE, PROVIDE FLARED SIDES.
6. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC §68.102.
7. CURB RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE TOWN ENGINEER.
8. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER ON ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
9. FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.
10. BARRIER FREE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS).
11. ALL BARRIER FREE RAMPS MUST PASS AN INDEPENDENT INSPECTION. A LETTER OF COMPLIANCE ACCEPTANCE IS REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON.
12. STREETS ON STEEP GRADE WILL REQUIRE LONGER TRANSITION ON UPGRADE SIDE.
13. MAXIMUM SLOPE ON RAMP PORTION SHALL NOT EXCEED 1" PER FOOT AT ANY LOCATION. VERTICAL DISTANCE BETWEEN STREET AND RAMP SHALL NOT EXCEED ¼".

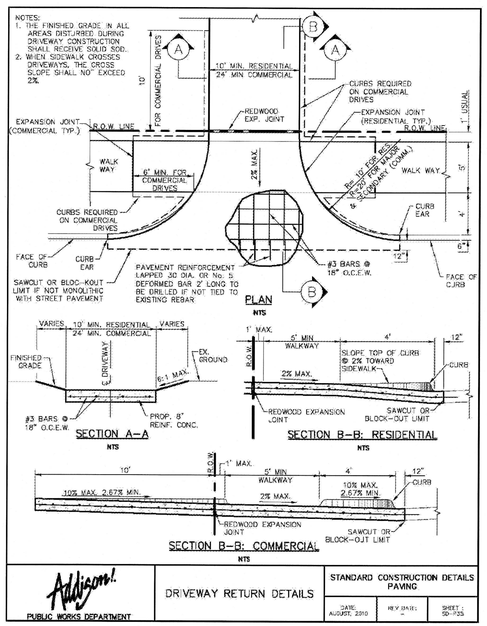
GENERAL NOTES FOR DETECTABLE WARNINGS

1. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSIST OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH THE ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK RED COLORED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE AND CREAM COLORED DETECTABLE WARNING SURFACE ADJACENT TO DARK RED COLORED BRICK PAVERS.
2. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
3. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
5. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 8" FROM THE EXTENSION OF THE FACE OF CURB AND SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.

GENERAL NOTES FOR DETECTABLE WARNING PAVER UNITS

1. DETECTABLE WARNING PAVER UNITS SHALL MEET OR EXCEED ALL REQUIREMENTS OF ASTM C-936, C-33, AND BE LAID IN A TWO BY TWO UNIT BASKET WEAVE PATTERN OR AS DIRECTED.
2. LAY FULL-SIZE UNITS FIRST FOLLOWED BY CLOSURE UNITS CONSISTING OF AT LEAST 25 PERCENT OF A FULL UNIT. CUT DETECTABLE WARNING PAVER UNITS USING A POWER SAW.

Addison! PUBLIC WORKS DEPARTMENT	PEDESTRIAN FACILITIES GENERAL NOTES	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-P37



Addison! PUBLIC WORKS DEPARTMENT	DRIVEWAY RETURN DETAILS	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-P35

ADDISON ROW
PAVING DETAILS
1 NEW SHEET
114

04 OPEN
SCALE:

03 DETECTABLE WARNING PAVER DETAILS
SCALE:

02 NOTES FOR DETECTABLE WARNING
SCALE:

01 DRIVEWAY RETURN DETAILS
SCALE:

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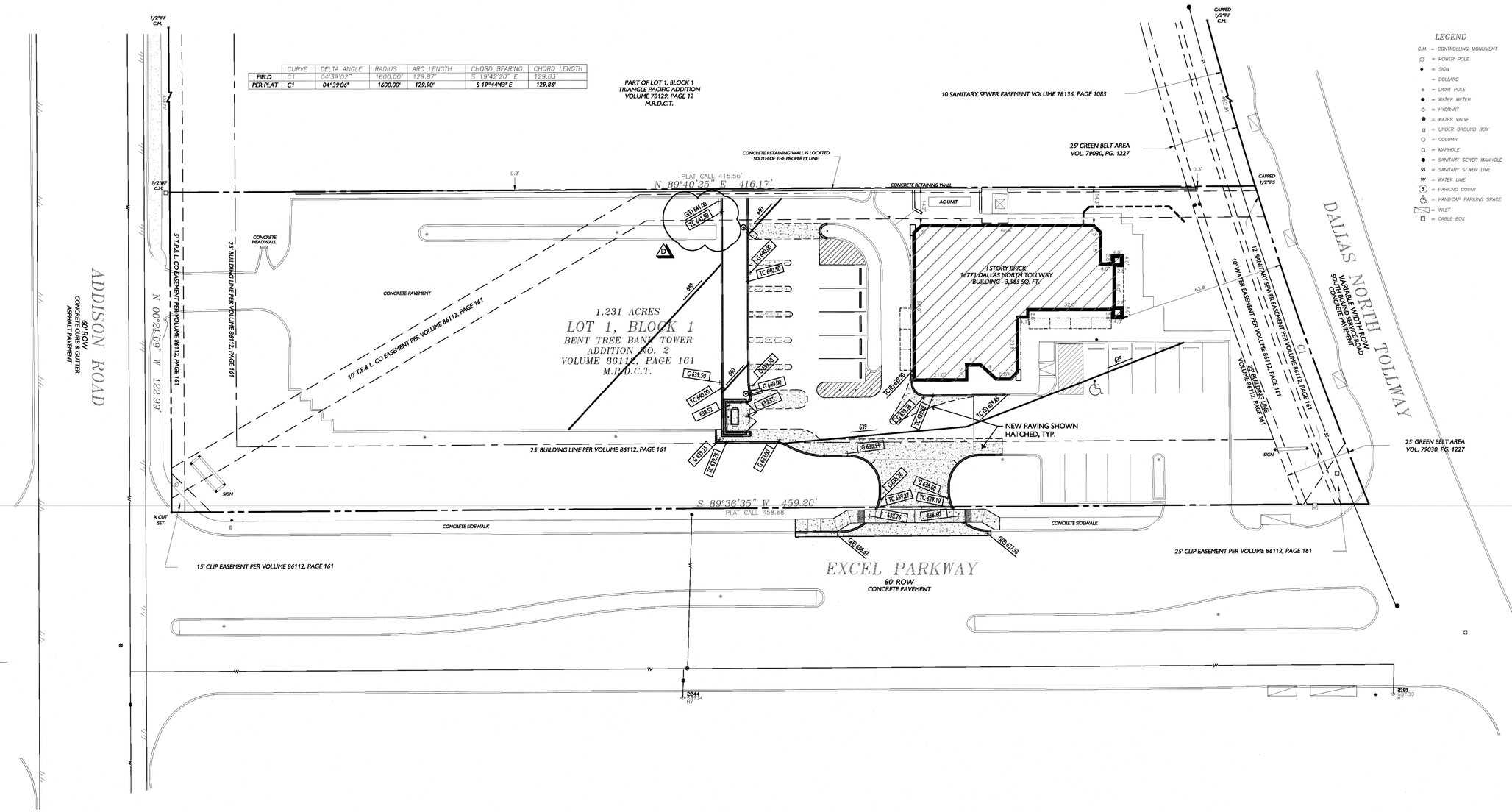
	CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
FIELD	C1	04°39'02"	1600.00'	129.87'	S 19°42'20" E	129.83'
PER PLAT	C1	04°39'06"	1600.00'	129.90'	S 19°44'43" E	129.86'



LEGEND

C.M. = CONTROLLING MONUMENT
= POWER POLE
= SIGN
= BOLLARD
= LIGHT POLE
= WATER METER
= HYDRANT
= WATER VALVE
= UNDER GROUND BOX
= COLUMN
= MANHOLE
= SANITARY SEWER MANHOLE
SS = SANITARY SEWER LINE
W = WATER LINE
= PARKING COUNT
= HANDICAP PARKING SPACE
= INLET
= CABLE BOX

01 GRADING PLAN

SCALE: 1" = 20'-0"

NORTH

SITE INFORMATION TAKEN FROM TAYLOR-HEWLWTT, INC. DRAWINGS DATED 08.15.85 USED IN ORIGINAL CONSTRUCTION AND ALTA SURVEY BY SURDUKAN SURVEYING, INC. DATED 11.01.11

NOTE:
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REGISTERED ARCHITECT
JACK W. KIENAST
9384
STATE OF TEXAS
03.01.13

REVISIONS

C	REVISIONS PER CITY COMMENTS	03.01.13
D	REVISIONS PER CITY COMMENTS	03.06.13

DATE:
01.28.13
PROJECT NO:
1220
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NEW SHEET

GRADING PLAN

120

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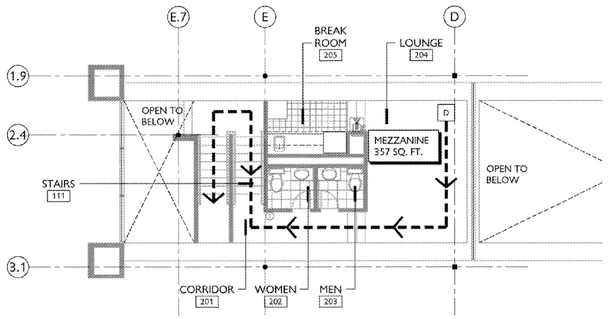
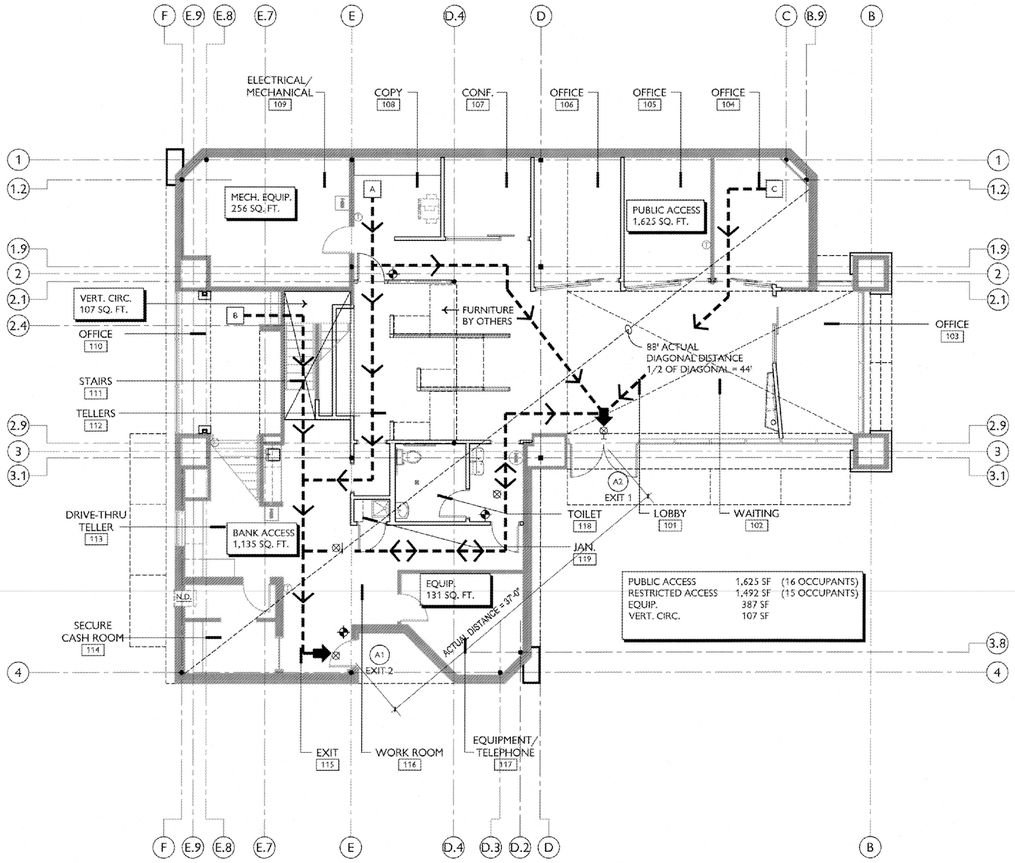


02 LIFE SAFETY PLAN - MEZZANINE

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

NORTH



PUBLIC ACCESS	1,625 SF	(16 OCCUPANTS)
RESTRICTED ACCESS	1,492 SF	(15 OCCUPANTS)
EQUIP.	387 SF	
VERT. CIRC.	107 SF	

01 LIFE SAFETY PLAN

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

NORTH

LEGEND

- EXIT PATH - REF. TRAVEL DISTANCE SEE CHART - THIS SHEET
- EXIT TO EXTERIOR
- SEMI-RECESSED FIRE EXTINGUISHER CABINET W/EXTINGUISHER AS SPECIFIED.

ACCESSIBILITY NOTES

- A1 EXISTING ACCESSIBLE ENTRY/EXIT
- A2 NEW ACCESSIBLE ENTRY/EXIT
- A3 FAIL SAFE ELECTRIC STRIKE SHOWN THUS:

PATH OF TRAVEL

PATH	EXIT NUMBER	
	EXIT 1	EXIT 2
A	47'	65'
B	83'	52'
C	35'	93'
D	127'	93'

GENERAL NOTES - TRAVEL DISTANCE

1. NOTE: EXIT PATHS SHOWN DO NOT INDICATE RECOMMENDED OR PLANNED MEANS OF EGRESS, BUT ARE INTENDED TO ILLUSTRATE THAT ALL POSITIONS IN THE BUILDING ARE WITHIN THE REQUIRED TRAVEL DISTANCE FROM AT LEAST ONE EXIT.
2. ALLOWED TRAVEL DISTANCE: 200'-0" WITHOUT AUTOMATIC SPRINKLERS SYSTEMS.
3. OCCUPANCY TYPE B @ 1:100 TOTAL BRANCH OCCUPANCY

NOTE:
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REGISTERED ARCHITECT JACK W. KIENAST 1-28-13 STATE OF TEXAS

REVISIONS

DATE: 01.28.13

PROJECT NO: 1220

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LIFE SAFETY PLAN

201

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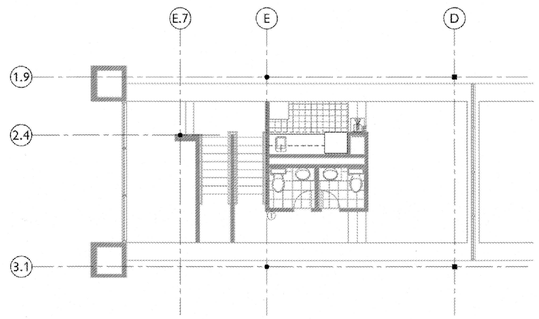
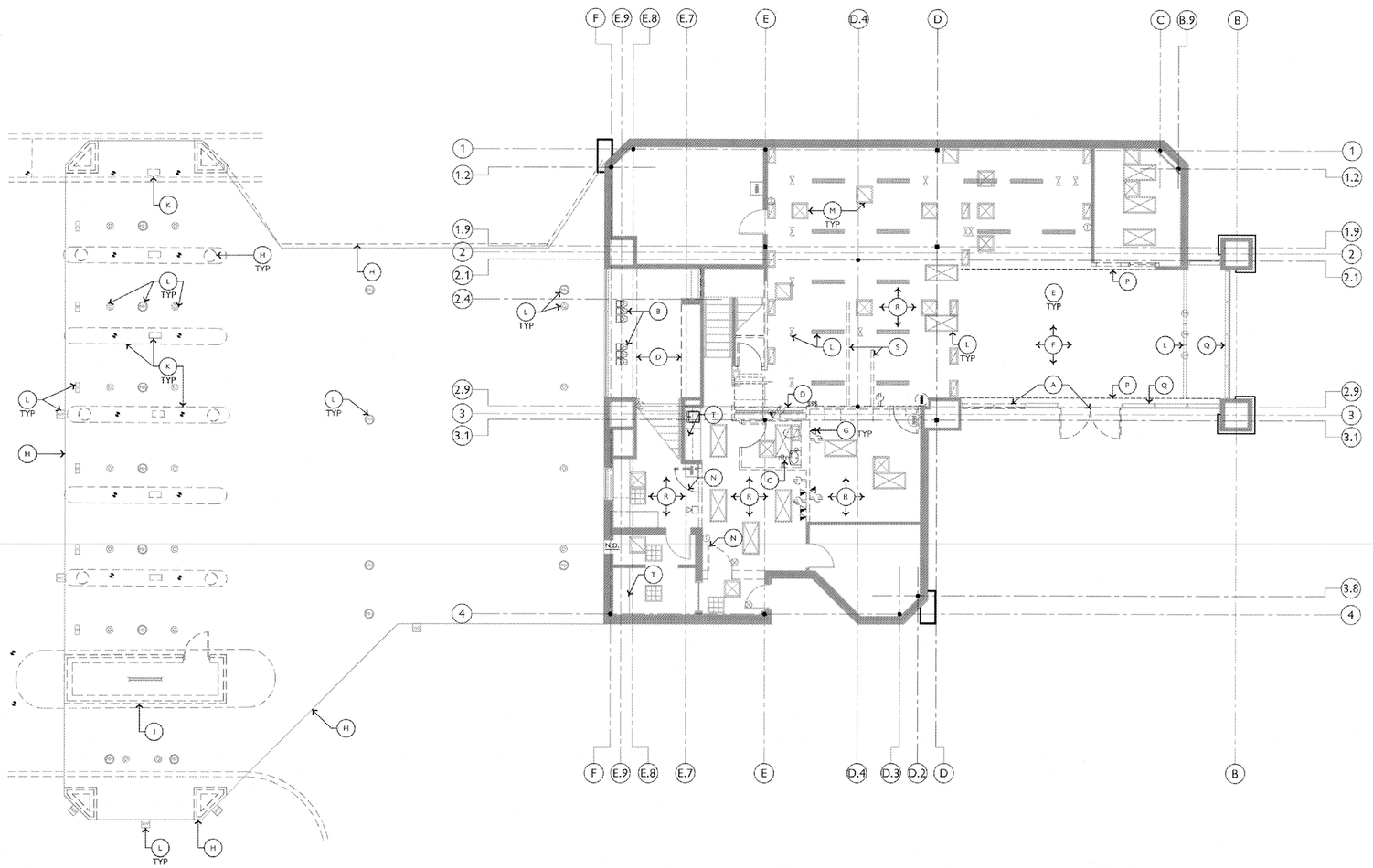


02 DEMOLITION PLAN - MEZZANINE

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

NORTH



LEGEND

EXISTING PARTITIONS & DOORS TO REMAIN.

PARTITIONS & DOORS TO BE REMOVED.

PLAN NOTES

(A) REMOVE & RELOCATE EXISTING STOREFRONT DOOR, HARDWARE, GLAZING & MULLIONS. DOOR & WINDOW UNIT SHALL BE RELOCATED WITH EACH OTHER, REFER FLOOR PLAN.

(B) REMOVE EXISTING BANK EQUIPMENT, PNEUMATIC TUBES, CONDUITS & CONDUCTORS BACK TO ELECTRICAL PANEL.

(C) REMOVE EXISTING PLUMBING FIXTURES, PREPARE PLUMBING UTILITIES FOR REUSE, REFER FLOOR PLAN.

(D) REMOVE & DISCARD EXISTING MILLWORK.

(E) SALVAGE FOR REUSE, ALL DOORS, FRAMES, HARDWARE & HVAC CEILING GRILLES.

(F) REMOVE ALL CARPET, WALL COVERING, HARD SURFACE FLOORING & BASE. MAKE FLOOR READY FOR NEW FLOOR FINISHES NOTED ELSEWHERE IN THIS SET OF DRAWINGS.

(G) ABANDON ELECTRICAL DEVICES IN DEMO'D. WALL. REMOVE CONDUCTORS BACK TO PANEL.

(H) DEMO EXISTING OVERHEAD CANOPY, ROOF, CEILING GRID/TILE, STEEL STRUCTURE & COLUMNS BACK TO BUILDING. DEMO ALL CONDUITS & CONDUCTORS BACK TO ELECTRICAL PANEL. REFER FLOOR PLAN FOR EXTENT OF NEW WORK.

(J) DEMO EXISTING BRICK ATM BUILDING.

(K) DEMO EXISTING CONCRETE ISLANDS, BOLLARDS, CURBS & BANK EQUIPMENT, REFER TO SITE PLAN DEMO FOR EXTENT.

(L) REMOVE LIGHT FIXTURES INDICATED. REF. RCP SHEET 251 FOR NEW LAYOUT.

(M) REMOVE & SALVAGE HVAC. GRILLES INDICATED. REF. RCP SHEET 251 FOR NEW LAYOUT. NEW/REROUTE DUCTS AS REQ'D.

(N) SALVAGE FOR REUSE ALL ELECTRIC STRIKES & MAG. LOCKS.

(P) PROTECT EXISTING UP-LIGHTS @ MEZZANINE LEVEL.

(Q) BAG & PROTECT ROLL-DOWN SHADES.

(R) REMOVE & SALVAGE CLG. GRID FOR RE-USE. SALVAGE TILE WHERE POSSIBLE.

(S) TRENCH SLAB FOR NEW CONDUITS & RECESSED FLOOR BOXES. REF. SHEET 281 FOR LOCATION.

(T) PROTECT EXISTING MILLWORK DURING CONSTRUCTION.

01 DEMOLITION PLAN

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

NORTH

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DEMOLITION PLAN

211

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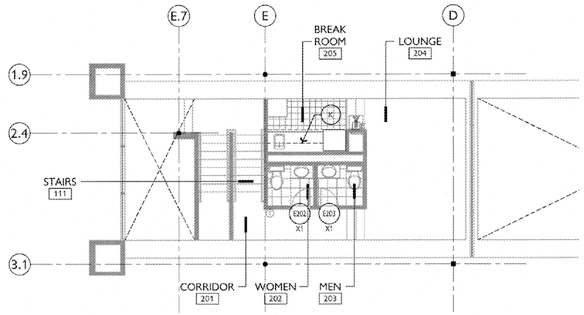
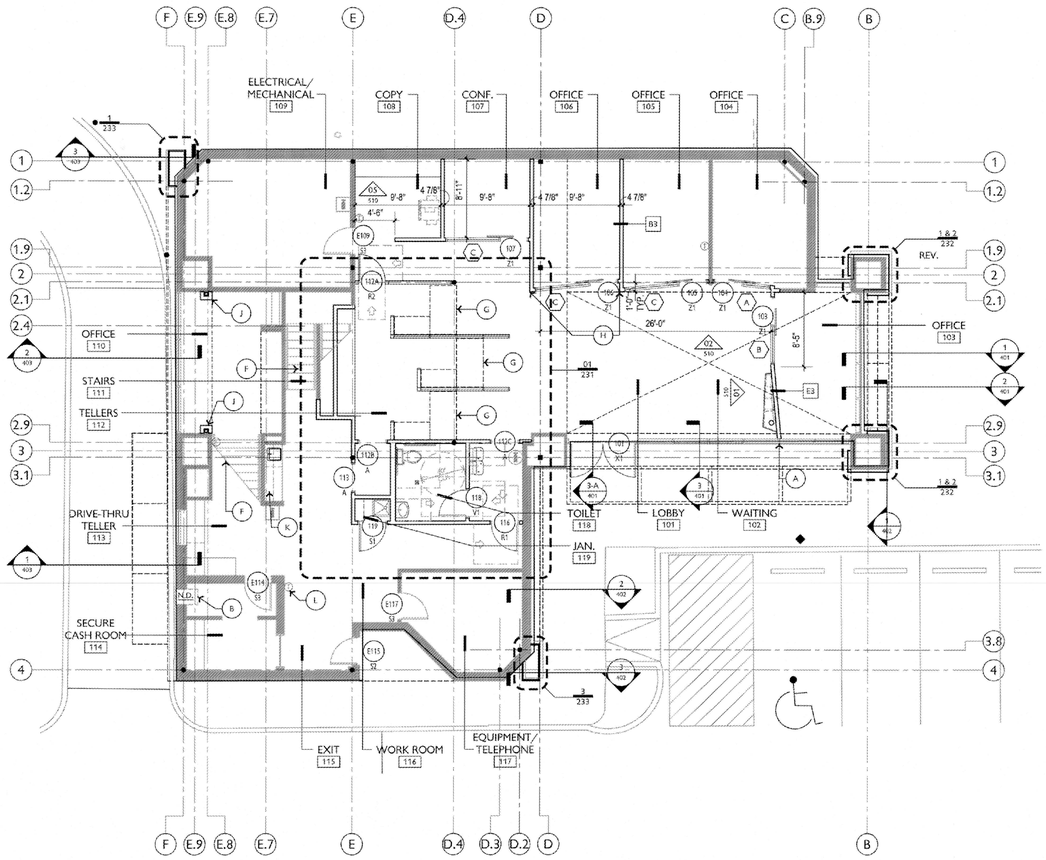


02 FLOOR PLAN - MEZZANINE

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

NORTH



01 FLOOR PLAN

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

NORTH

LEGEND

EXISTING PARTITIONS & DOORS TO REMAIN.

NEW PARTITIONS & DOORS.

ANTICIPATED NORMAL DIRECTION OF TRAVEL

ACCESSIBLE CLEAR AREA REFER DETAIL FOR MINIMUM CLEARANCE, G.C. TO COORDINATE.

DOOR IDENTIFICATION

NOT ALL DESCRIPTIONS USED

101 — MATCH ROOM NUMBER

A — LOCKSET TYPE
ALL LOCKSETS HAVE FREE EXIT IN DIRECTION OF TRAVEL WITHOUT SPECIAL KNOWLEDGE OR EFFORT.
A - CASED OPENING
M - PUSH/PULL
NO LOCKSET.
P - PASSAGE
LOCKSET ALWAYS UNLOCKED. NO LOCKING MECHANISM AVAILABLE.
R - CARD READER/STOREROOM/ELECTRIC STRIKE
(SEE STOREROOM SET.)
S - STOREROOM
LOCKSET ALWAYS LOCKED IN DIRECTION OF ACCESS, OPENED BY KEY.
V - PRIVACY
LOCKSET LOCKED BY PUSHING BUTTON. IF PUSHED PRIOR TO DOOR BEING CLOSED, LOCKSET WILL AUTOMATICALLY UNLOCK.
X - EXISTING
EXISTING LOCKSET TO REMAIN.
Y - CYPHER
MECHANICAL COMBINATION LOCKSET OVERRIDDEN BY KEY.
Z - SLIDING
SLIDING DOOR

EQUIPMENT NOTES

FIRE EXTINGUISHER AS SPECIFIED ON WALL MOUNTED BRACKET.

SEMI-RECESSED FIRE EXTINGUISHER CABINET W/EXTINGUISHER AS SPECIFIED.

CLEAN AGENT FIRE EXTINGUISHER (WALL BRACKET).

TYPICAL PARTITIONS TO BE "A3" U.N.O

PLAN NOTES

- A — CENTER OF WINDOW MULLION IS CENTER OF NEW WALL PARTITION.
- B — EXISTING/NEW TENANT EQUIPMENT BY OTHERS, PROTECT DURING CONSTRUCTION.
- C — PROVIDE GREEN BOARD IN LIEU OF GYPSUM BOARD FOR ALL WALLS AS NOTED.
- D — NEW FLOOR DRAIN.
- E — LINE OF CANOPY ABOVE.
- F — EXISTING STAIRS TO REMAIN, PROTECT DURING CONSTRUCTION.
- G — FURNITURE BY OTHERS SHOWN FOR REFERENCE, REFER COMMUNICATION PLAN FOR ELECTRICAL DEVICES.
- H — CORNER OF WALL SHALL ALIGN WITH SOFFIT ABOVE.
- J — NEW MINIMAL GYP FURRING AT ROOF DRAINS.
- K — REPAIR EXISTING MILLWORK DOORS AS NEEDED FOR LIKE-NEW FUNCTIONALITY.
- L — RELOCATED T-STAT. MOUNT AT REQUIRED HEIGHT.

NOTE:
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FLOOR PLAN

221

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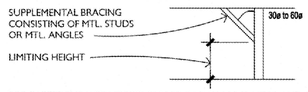
ALL PARTITION TYPES SHOWN HERE ARE DRAWN AS "NON FIRE- RATED". WHERE FIRE RESISTIVE GYPSUM WALLBOARD CONSTRUCTION IS INDICATED, IN ADDITION TO PROVIDING "TYPE X" GYPSUM WALLBOARD, PROVIDE SEALANT AT PERIMETER AND ALL PENETRATIONS, TYPICAL BOTH SIDES OF PARTITION.

UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.

LIMITING HEIGHTS INDICATED GIVE THE MAXIMUM UNSUPPORTED HEIGHT FOR THAT PARTITION TYPE BASED ON A DEFLECTION CRITERIA RATIO OF L/240. WHERE FLOOR TO STRUCTURE HEIGHT OF PARTITION EXCEEDS THE INDICATED LIMITING HEIGHT, PROVIDE SUPPLEMENTAL BRACING TO THE STRUCTURE OVERHEAD AS REQUIRED TO MAINTAIN DEFLECTION RATIO WITHIN L/240.

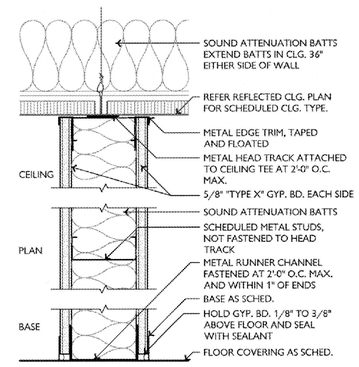


FOR PARTITIONS WITH "BRITTLE" FINISHES SUCH AS PLASTER AND CERAMIC TILE, DESIGN PARTITION SYSTEM TO MAINTAIN DEFLECTION RATIO WITHIN L/360.

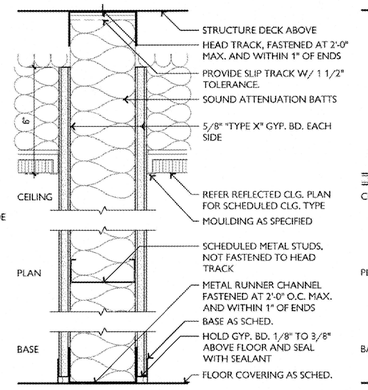
SUSPENDED CEILINGS SHALL NOT BE CONSIDERED AS BRACING.

WHERE GYPSUM WALLBOARD IS THE SUBSTRATE FOR APPLICATION OF CERAMIC TILE, PROVIDE "WATER-RESISTANT" BOARD. WHERE FIRE RESISTIVE CONSTRUCTION IS INDICATED, PROVIDE "TYPE X- W/R BOARD.

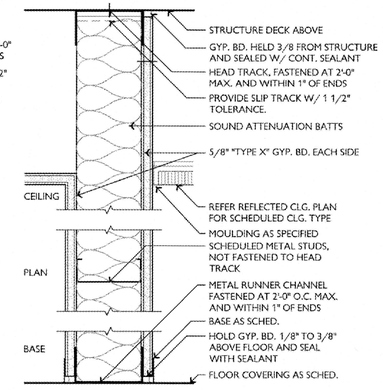
STC RATINGS SHOWN FOR SOUND WALLS ARE BASED ON LABORATORY TESTED ASSEMBLIES AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED WORK. PROVIDE MTL. DECK FILLERS WHERE FULL HEIGHT PARTITIONS ARE PERPENDICULAR TO SPAN OF DECK. DECK FILLERS ARE TO BE COMPATIBLE WITH ALL FIRE RATED ASSEMBLIES AND ARE TO BE APPROVED BY ALL GOVERNING AGENCIES.



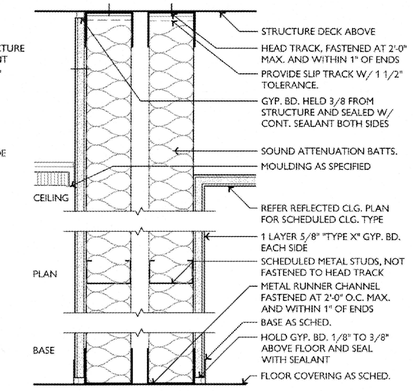
A3	WIDTH	STUD SIZE	SPACING	GAUGE
	4 7/8"	3 5/8"	24" O.C.	25 GA.



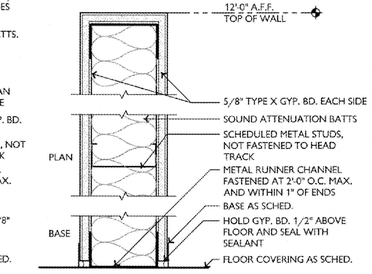
B3	WIDTH	STUD SIZE	SPACING	GAUGE
	4 7/8"	3 5/8"	24" O.C.	25 GA.



C3	WIDTH	STUD SIZE	SPACING	GAUGE
	4 7/8"	3 5/8"	16" O.C.	25 GA.

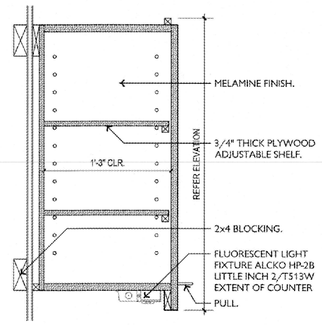


D2	WIDTH	STUD SIZE	SPACING	GAUGE
	REF. PLAN	2 1/2"	16" O.C.	25 GA.

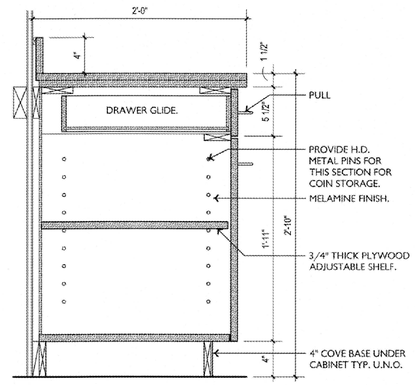


E3	WIDTH	STUD SIZE	SPACING	GAUGE
	4 7/8"	3 5/8"	16" O.C.	25 GA.

05 WALL TYPES
SCALE: 3" = 1'-0"



04 MILLWORK DTL.
SCALE: 1 1/2" = 1'-0"



03 MILLWORK DTL.
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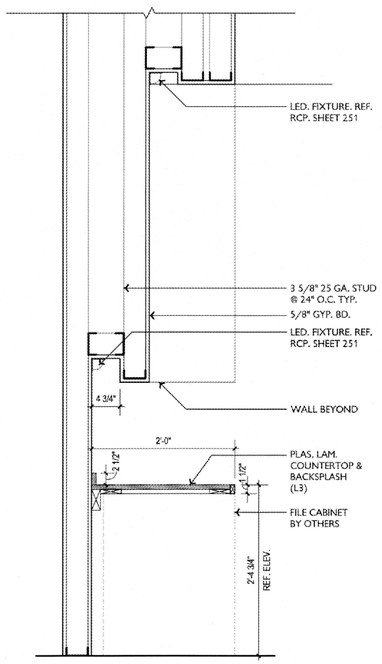
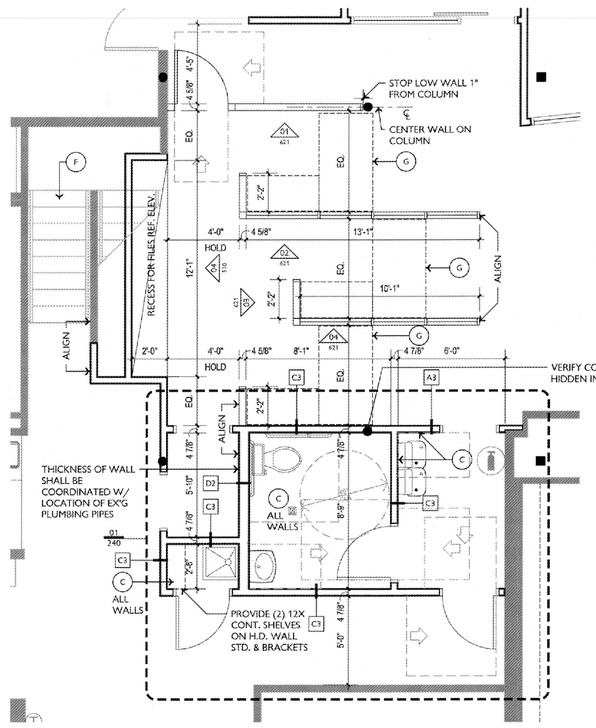


02 COUNTER DTL. @ FILE CAB.
SCALE: 1" = 1'-0"



01 LARGE SCALE FLOOR PLAN
SCALE: 1/4" = 1'-0"

ALEXANDER + KIENAST + SCHNITZ
ARCHITECTURE & INTERIOR DESIGN
13601 PRESTON RD, SUITE 1070W
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REGISTERED ARCHITECT — JACK W. KIENAST — 10850 — 9384 — STATE OF TEXAS

REVISIONS

DATE:
01.28.13
PROJECT NO:
1220
ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

LARGE SCALE FLOOR PLAN/WALL TYPES/ DETAILS

231

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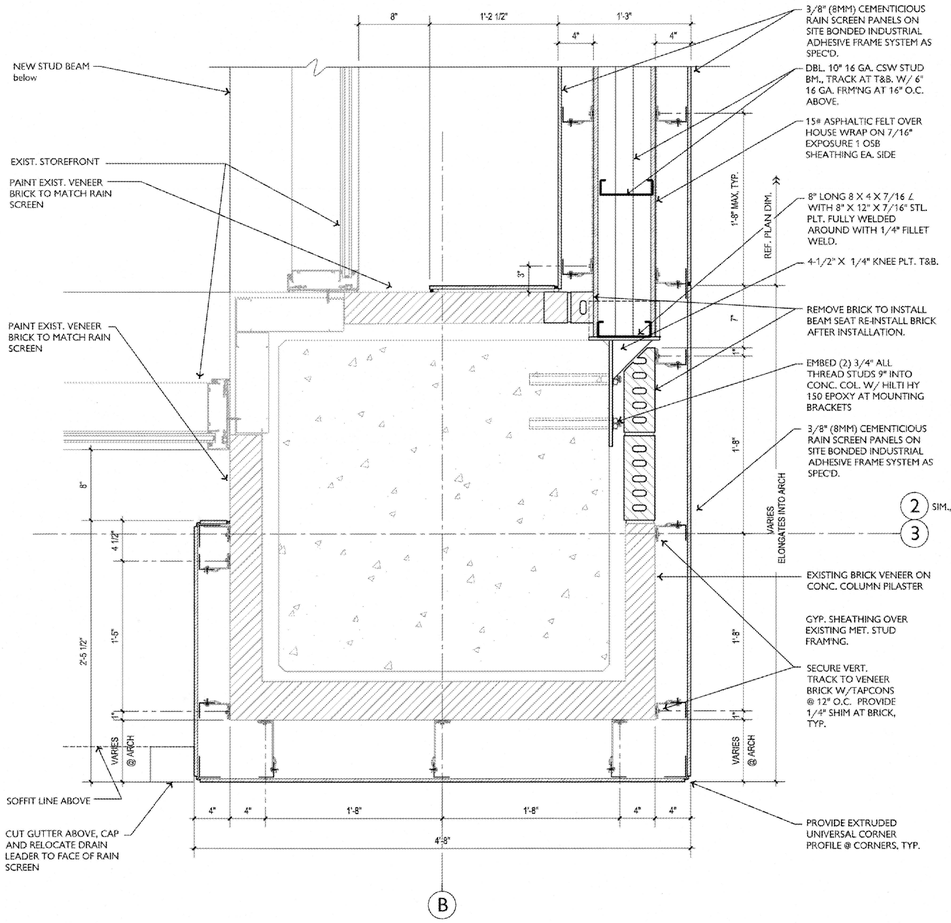

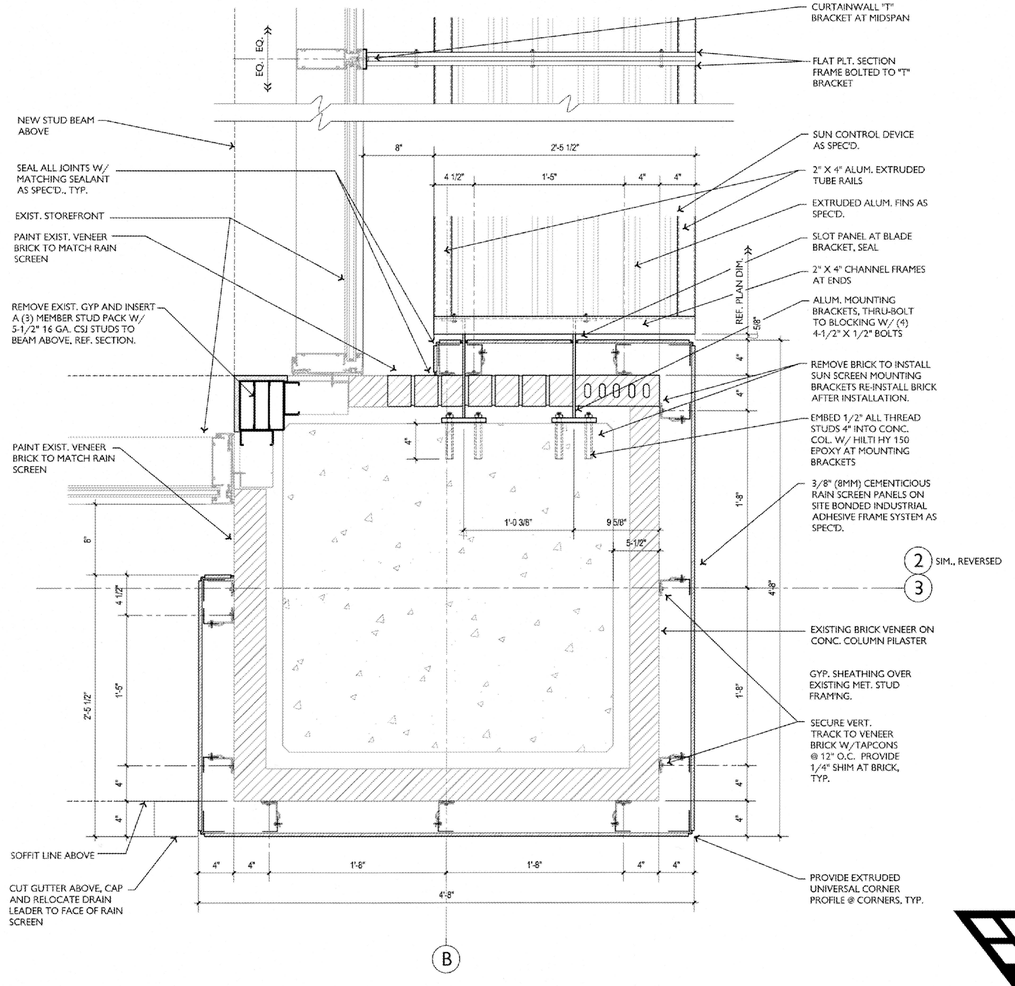

2 DETAIL FRONT ARCH AT BEAM
SCALE: 1 1/2" = 1'-0"
PLAN NORTH

1 DETAIL FRONT ARCH AT SUN SCREEN
SCALE: 1 1/2" = 1'-0"
PLAN NORTH

ALEXANDER KIENAST SCHNITZ
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LARGE SCALE ARCHITECTURAL PLAN DETAILS

232

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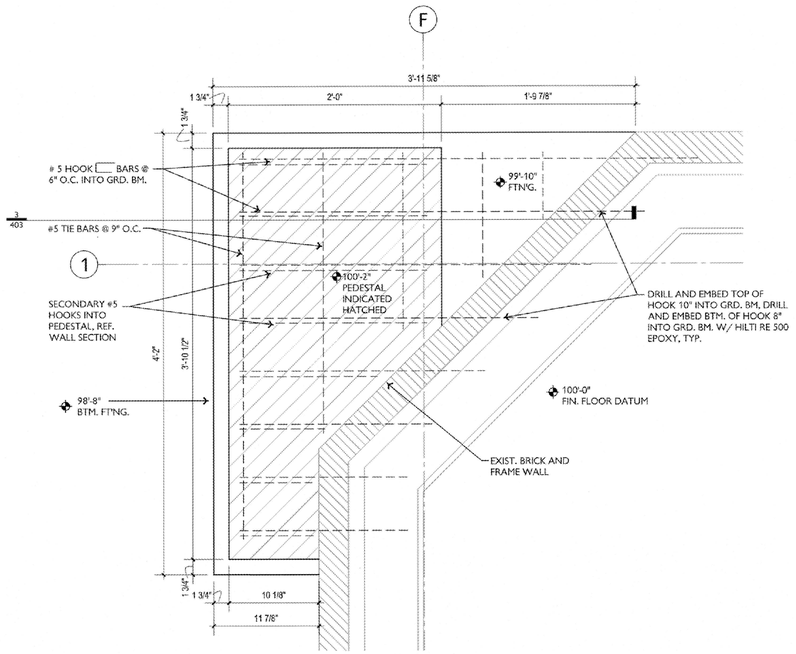
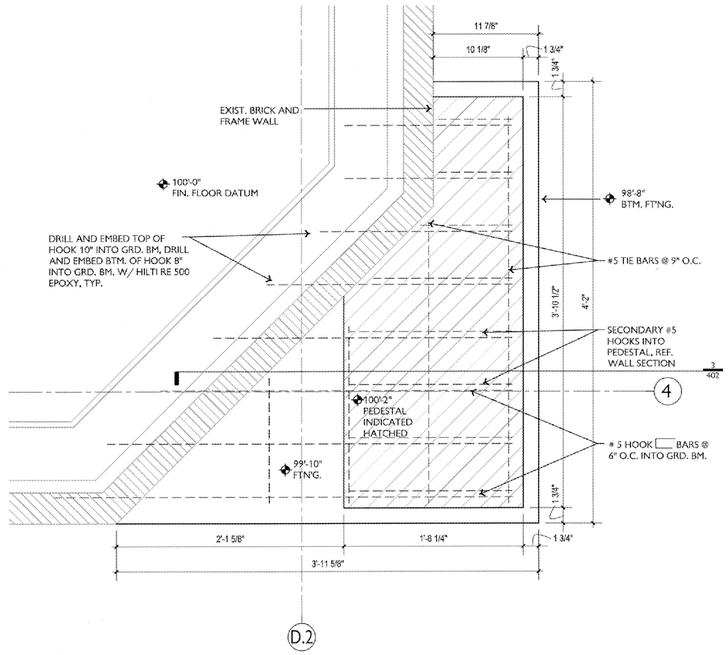




2 DETAIL DRIVE-IN FLYING WALL FOUNDATION

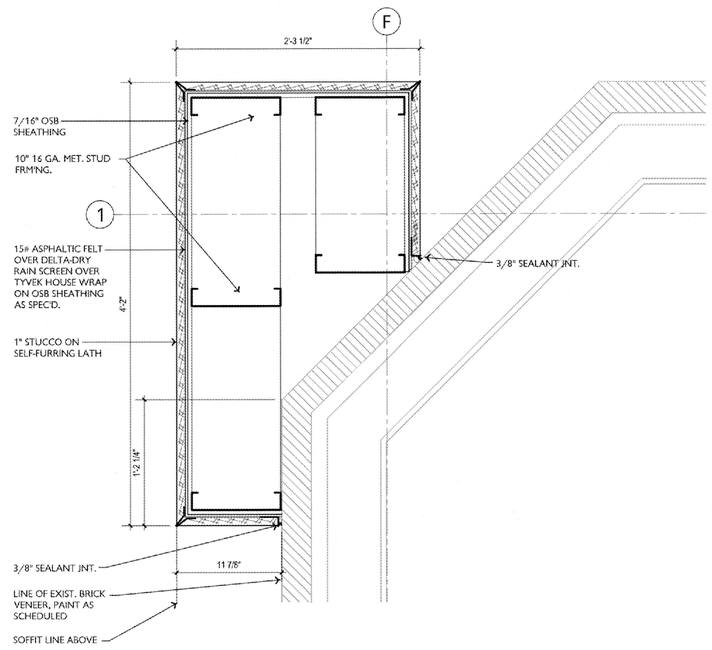
SCALE: 1 1/2" = 1'-0"

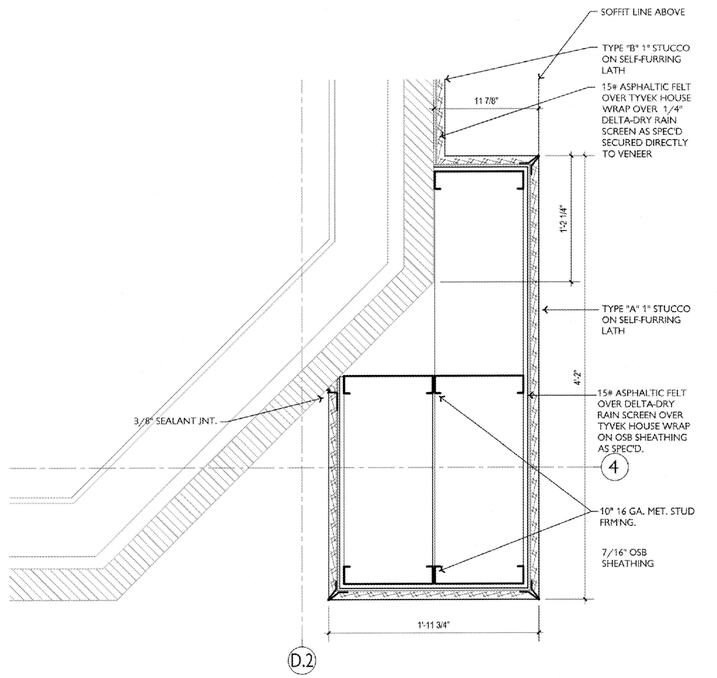
PLAN NORTH

4 DETAIL FRONT ENTRY FLYING WALL FOUNDATION

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

PLAN NORTH





1 DETAIL DRIVE-IN FLYING WALL

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

PLAN NORTH

3 DETAIL FRONT ENTRY FLYING WALL

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

PLAN NORTH

ALEXANDER + KIENAST + SCHNITZ

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1.28.13
9381
STATE OF TEXAS

REVISIONS

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LARGE SCALE ARCHITECTURAL PLAN DETAILS

233

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305 Clear Floor or Ground Space

305.1 General. Clear floor or ground space shall comply with 305.

305.2 Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

305.3 Size. The clear floor or ground space shall be 30 in. (760 mm) min. by 48 in. (1220 mm) min.

305.4 Knee and Toe Clearance. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.

305.5 Position. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

305.6 Approach. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.

305.7 Maneuvering Clearance. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.

305.7.1 Forward Approach. Alcoves shall be 36 in. (915 mm) wide min. where the depth exceeds 24 in. (610 mm).

305.7.2 Parallel Approach. Alcoves shall be 60 in. (1525 mm) wide min. where the depth exceeds 15 in. (380 mm).

306 Knee and Toe Clearance

306.1 General. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 in. (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Max. Depth. Toe clearance shall extend 25 in. (635 mm) max. under an element.

306.2.3 Min. Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 in. (430 mm) min. under the element.

306.2.4 Additional Clearance. Space extending greater than 6 in. (150 mm) beyond the available knee clearance at 9 in. (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 in. (760 mm) wide min.

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 in. (230 mm) and 27 in. (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Max. Depth. Knee clearance shall extend 25 in. (635 mm) max. under an element at 9 in. (230 mm) above the finish floor or ground.

306.3.3 Min. Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 in. (280 mm) deep min. at 9 in. (230 mm) above the finish floor or ground, and 8 in. (205 mm) deep min. at 27 in. (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 in. (230 mm) and 27 in. (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 in. (25 mm) in depth for each 6 in. (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 in. (760 mm) wide min.

602 Drinking Fountains

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach & centered on the unit. Knee & toe clearance complying with 306 shall be provided.

602.4 Spout Height. Spout outlets shall be 36 in. (915 mm) max. above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 in. (380 mm) min. from the vertical support & 5 in. (125 mm) max. from the front edge of the unit, including bumpers.

602.6 Water Flow. The spout shall provide a flow of water 4 in. (100 mm) high min. & shall be located 5 in. (125 mm) max. from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 in. (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees max. Where spouts are located between 3 in. (75 mm) & 5 in. (125 mm) max. from the front of the unit, the angle of the water stream shall be 15 degrees max.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 in. (965 mm) min. & 43 in. (1090 mm) max. above the finish floor or ground.

603 Toilet & Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room.

603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, & turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 in. (1015 mm) max. above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 in. (890 mm) max. above the finish floor or ground.

Advisory. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory & people who use wheelchairs, the top edge of mirrors should be 74 in. (1880 mm) min. from the floor or ground.

603.4 Coat Hooks & Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 in. (1015 mm) min. & 48 in. (1220 mm) max. above the finish floor.

604 Water Closets & Toilet Compartments

604.2 Location. The water closet shall be positioned with a wall or partition to the rear & to one side. The centerline of the water closet shall be 16 in. (405 mm) min. to 18 in. (455 mm) max. from the side wall or partition, except that the water closet shall be 17 in. (430 mm) min. & 19 in. (485 mm) max. from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

604.3 Clearance. Clearances around water closets & in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 in. (1525 mm) min. measured perpendicular from the side wall & 56 in. (1420 mm) min. measured perpendicular from the rear wall.

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space & clearances required at other fixtures, & the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 in. (430 mm) min. & 19 in. (485 mm) max. measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet & on the rear wall.

604.5.1 Side Wall. The side wall grab bar shall be 42 in. (1065 mm) long min., located 12 in. (305 mm) max. from the rear wall & extending 54 in. (1370 mm) min. from the rear wall.

604.5.2 Rear Wall. The rear wall grab bar shall be 36 in. (915 mm) long min. & extend from the centerline of the water closet 12 in. (305 mm) min. on one side & 24 in. (610 mm) min. on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet, except in ambulatory accessible compartments complying with 604.8.2.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 & shall be 7 in. (180 mm) min. & 9 in. (230 mm) max. in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 in. (380 mm) min. & 48 in. (1220 mm) max. above the finish floor & shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 & 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 & 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 in. (1525 mm) wide min. measured perpendicular to the side wall, & 56 in. (1420 mm) deep min. for wall hung water closets & 59 in. (1500 mm) deep min. for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 in. (1525 mm) wide min. measured perpendicular to the side wall, & 59 in. (1500 mm) deep min. for wall hung & floor mounted water closets measured perpendicular to the rear wall.

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment & any obstruction shall be 42 in. (1065 mm) min. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 in. (100 mm) max. from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 in. (100 mm) max. from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the min. required compartment area.

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition & at least one side partition shall provide a toe clearance of 9 in. (230 mm) min. above the finish floor & 6 in. (150 mm) deep min. beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 in. (305 mm) min. above the finish floor.
EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 in. (1575 mm) deep with a wall-hung water closet or 65 in. (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 in. (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 in. (1650 mm) deep.

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided & shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 in. (1525 mm) min. & a width of 35 in. (890 mm) min. & 37 in. (940 mm) max.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment & any obstruction shall be 42 in. (1065 mm) min. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the min. required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

604.8.3 Coat Hooks & Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 in. (1015 mm) min. & 48 in. (1220 mm) max. above the finish floor.

605 Urinals

605.2 Height & Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 in. (430 mm) max. above the finish floor or ground. Urinals shall be 13 1/2 in. (345 mm) deep min. measured from the outer face of the urinal rim to the back of the fixture.

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories & Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, & knee & toe clearance complying with 306 shall be provided.
EXCEPTIONS:
1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided & to wet bars.
6. The clip of the overflow shall not be considered in determining knee & toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee & toe clearance complying with 306.

606.3 Height. Lavatories & sinks shall be installed with the front of the higher of the rim or counter surface 34 in. (865 mm) max. above the finish floor or ground.

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds min.

606.5 Exposed Pipes & Surfaces. Water supply & drain pipes under lavatories & sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories & sinks.

609 Grab Bars

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 in. (32 mm) min. & 2 in. (51 mm) max.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 in. (51 mm) max. & a perimeter dimension of 4 in. (100 mm) min. & 4.8 in. (120 mm) max.

609.3 Spacing. The space between the wall & the grab bar shall be 1 1/2 in. (38 mm). The space between the grab bar & projecting objects below & at the ends shall be 1 1/2 in. (38 mm) min. The space between the grab bar & projecting objects above shall be 12 in. (305 mm) min.

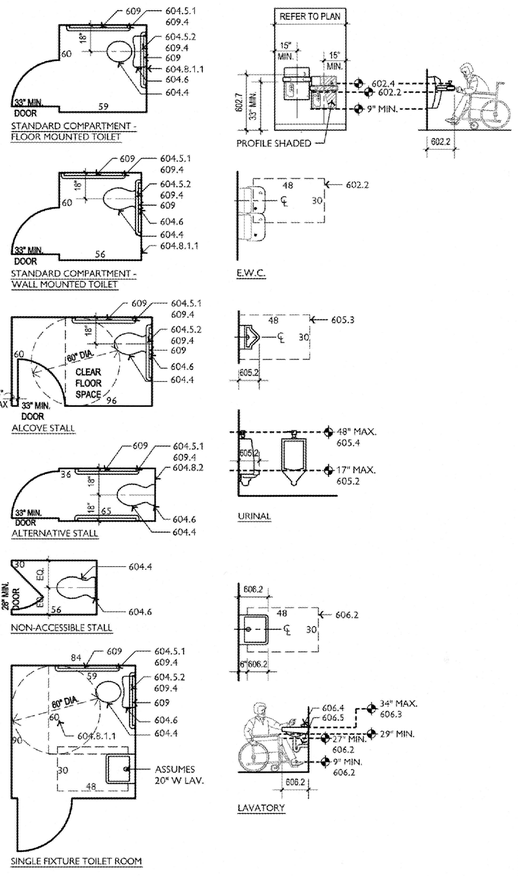
609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 in. (840 mm) min. & 36 in. (915 mm) max. above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 in. (455 mm) min. & 27 in. (685 mm) max. above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars & any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements & shall have rounded edges.

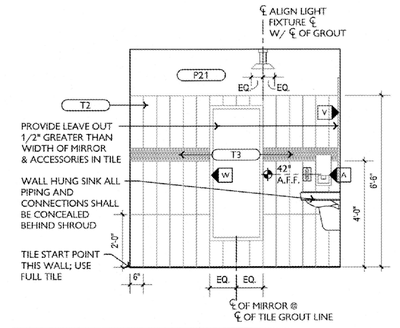
609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations & that does not obstruct the required clear floor space.

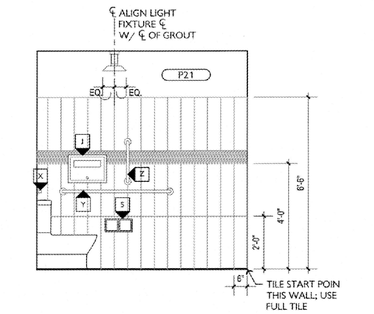
609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 lbs. (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.



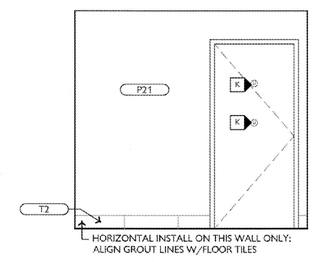
07 ELEVATION AT TOILETS
SCALE: 3/8" = 1'-0"



05 ELEVATION AT TOILETS
SCALE: 3/8" = 1'-0"



06 ELEVATION AT TOILETS
SCALE: 3/8" = 1'-0"



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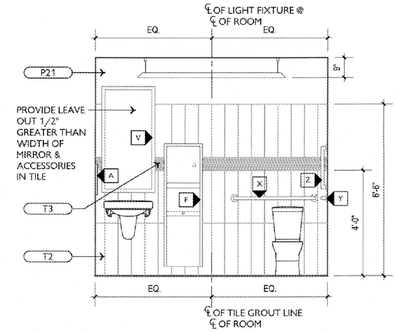
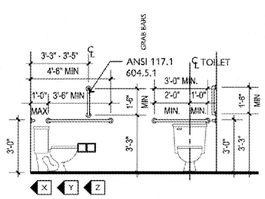
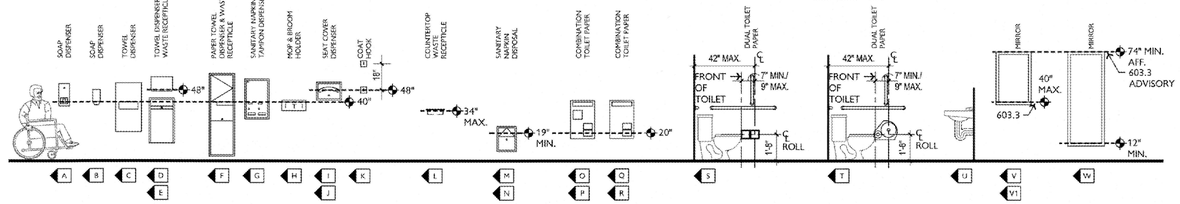


03 ADA ACCESSIBLE CLEARANCES
SCALE: 1/4" = 1'-0"

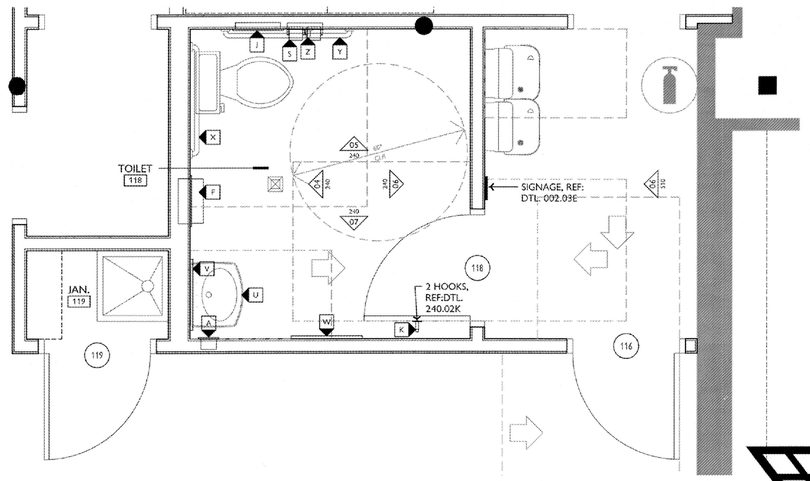
TYPE	TOILET ACCESSORY DESCRIPTION	AMERICAN SPECIALTIES	BOBRICK	GEORGIA PACIFIC	COMMENTS
A	CARTRIDGE SOAP DISPENSER: RECESSED	#AS-5002	#B-4063	N/A	
B	FOAMING SOAP & SANITIZER DISPENSER	N/A	N/A	#52253	PROVIDED BY OWNER INSTALLED BY G.C.
C	PAPER TOWEL DISPENSER: RECESSED	#AS-6452	#B-362	N/A	
D	TOUCHLESS PAPER TOWEL DISPENSER	N/A	N/A	#59462	PROVIDED BY OWNER INSTALLED BY G.C.
E	WASTE RECEPTACLE	#AS-0458	N/A	N/A	
F	TOWEL DISPENSER & WASTE RECEPTACLE: RECESSED	#AS-0469	#B-3942	N/A	
G	SANITARY NAPKIN/TAMPON DISPENSER: RECESSED	#AS-0468	#B-43500	N/A	
H	MOP & BROOM HOLDER	#AS-8215-4	#B-223	N/A	
I	SEAT COVER DISPENSER: BACK TO BACK PARTITION MOUNTED	#AS-0476	#B-304	N/A	
J	SEAT COVER DISPENSER: RECESSED	#AS-0477	#B-3013	N/A	
K	SINGLE HOOK (2 REQUIRED)	#AS-0751	#B-2116	N/A	
L	COUNTERTOP WASTE RECEPTACLE	#AS-1003	#B-527	N/A	
M	SANITARY NAPKIN DISPOSAL: BACK TO BACK PARTITION MOUNTED	#AS-0472	#B-354	N/A	
N	SANITARY NAPKIN DISPOSAL: RECESSED	#AS-0473	#B-35303	N/A	
O	TOILET PAPER / SEAT COVER / SANITARY DISPOSAL: RECESSED	#AS-0482	#B-3574	N/A	
P	TOILET PAPER / SEAT COVER / SANITARY DISPOSAL: BACK TO BACK PARTITION MOUNTED	#AS-0481	#B-357	N/A	
Q	TOILET PAPER / SEAT COVER: RECESSED	#AS-0485	#B-3474	N/A	
R	TOILET PAPER / SEAT COVER: BACK TO BACK PARTITION MOUNTED	#AS-0484	#B-347	N/A	
S	RECESSED MOUNTED DUAL ROLL TOILET PAPER HOLDER	#AS-74022	#B-697	N/A	
T	SURFACE MOUNTED DOUBLE ROLL TISSUE	N/A	N/A	#58150	PROVIDED BY OWNER INSTALLED BY G.C.
U	PIPE INSULATION - LAV. SHIELD. REF: SPECS. (TURBO)	N/A	N/A	N/A	
V	24"x48" FRAMED MIRROR	#AS-0600-2448	#B-165-2448	N/A	
V1	FULL WIDTH x FULL HEIGHT MIRROR	N/A	N/A	N/A	
W	24"x60" FRAMED MIRROR	#AS-0600-2460	#B-165-6036	N/A	
X	GRAB BAR 36" HORIZONTAL	#AS-3100 - 36"	#B-5806 x 36	N/A	
Y	GRAB BAR 48" HORIZONTAL	#AS-3100 - 48"	#B-5806 x 48	N/A	
Z	GRAB BAR 18" VERTICAL	#AS-3100 - 18"	#B-5806 x 18	N/A	





02 ACCESSORY MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

ALL RESTROOM ACCESSORIES ARE AMERICAN SPECIALTIES PRODUCT U.N.O.



01 LARGE SCALE AT TOILET
SCALE: 1/2" = 1'-0"

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LARGE SCALE TOILET/ELEVATIONS

240

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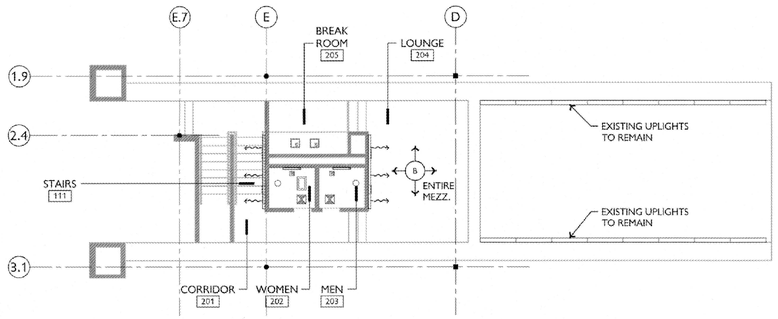
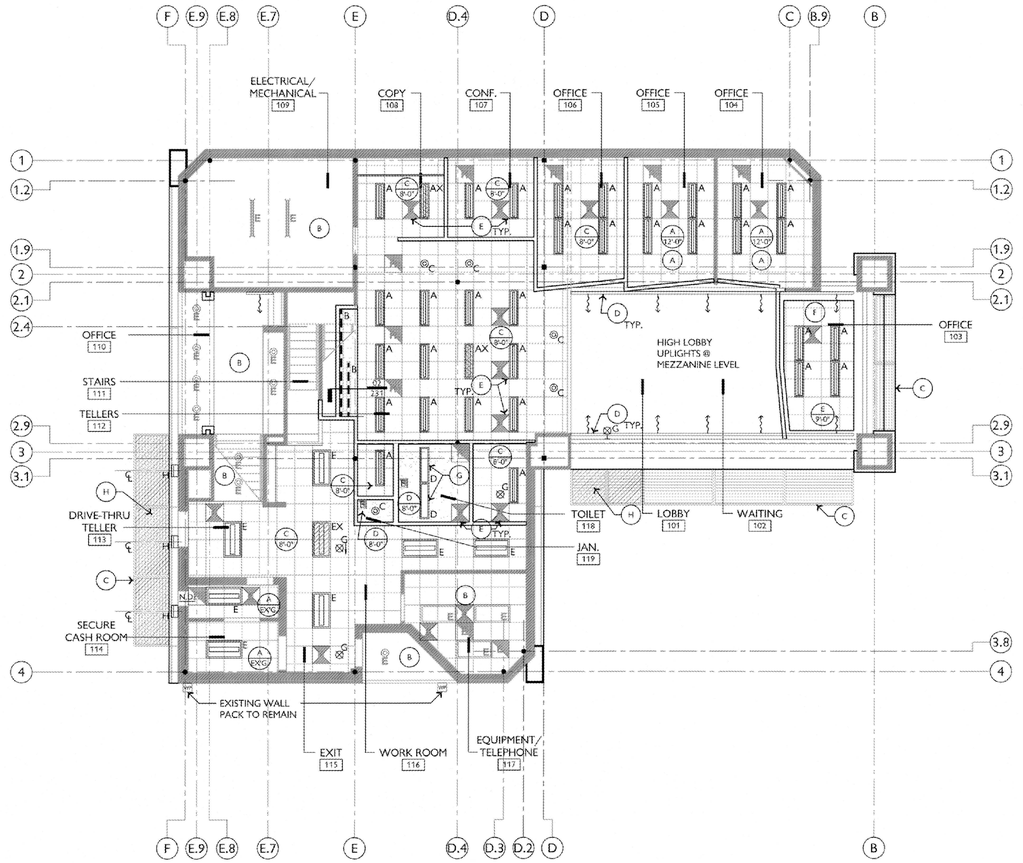


02 REFLECTED CEILING PLAN - MEZZANINE

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

NORTH



LEGEND

NOTE: THE FIXTURE SCHEDULE APPEARING ON THIS PAGE IS FOR GENERAL DESIGN GUIDELINES ONLY. PLACE ALL FIXTURES IN PLAN ACCORDING TO THIS SHEET.

KEY	SYMBOL	MANUFACTURER/ PRODUCT	LAMPS	DESCRIPTION	V/A	VOLTS
A		H.E. WILLIAMS, INC. HET G-S14-132-A-EB1-120	32W T8 SPEC 35	1X4 INDIRECT FLUORESCENT	29	120
AX		H.E. WILLIAMS, INC. HET G-S14-132-A-EB1-EM500-EB1-120	32W T8 SPEC 35	1X4 INDIRECT FLUORESCENT EMERG. BALLAST,/ 24 HR. CIRCUIT	29	120
B		DANALITE L2-3C-W	3000K WARM WHITE LED ARRAY	RECESSED STRIP LED BEHIND TELLER	20	120
C		EDISON PRICE LIGHTING BFX 213/8-120-WOL	(2) 13W 4 PIN	COMPACT FLOURESCENT	26	120
D		H.E. WILLIAMS, INC. DI-G-S14-232-AD-EB2-UNV-DFK	(2) T8-32W SPEC 35	1X4 DIRECT/INDIRECT	58	120
E		H.E. WILLIAMS, INC. DI-G-S24-232-AD-EB2-UNV	(2) T8-32W SPEC 35	2X4 DIRECT/INDIRECT	58	120
EX		H.E. WILLIAMS, INC. DI-G-S24-232-AD-EM500-EB2-UNV	(2) T8-32W SPEC 35	2X4 DIRECT/INDIRECT, EMERG. BALLAST,/ 24 HR. CIRCUIT	58	120
F		NOT USED				
G		EELP UR-EDGR-1-G-C-EM	LED ARRAY	EXIT FIXTURE W/ EMERG. BAL. ON 24 HR. CIRCUIT. REFER PLAN FOR FACES & CHEVRONS	5	120
H		PHILIPS GARDCO 101-MT-UNIV-NP	(1) 100W MH	PERFORMANCE SCONCE ON EXTERIOR	114	208
J		KIM 1A-EKG401-250MH-208-DBE PSSK-16A-DBE 16' POLE	(1) 250W MH	SITE LIGHT AREA LIGHT TO MATCH EXISTING	250	208

CEILING MATERIALS

CEILING TAG

(X) CEILING MATERIAL
(XXX) CEILING HEIGHT

CEILING TYPES

A. EXISTING ACOUSTICAL CEILING.

B. EXISTING GYPSUM BOARD CEILING.

C. ACOUSTICAL CEILING AS SPEC'D.

D. GYPSUM BOARD CEILING REFER FINISH PLAN FOR PAINT COLOR.

E. SUSPENDED CEILING CLOUD AS SPEC'D.

LEGEND

NOTE: LETTER "E" BY SYMBOL INDICATES "EXISTING TO REMAIN." LETTER "R" BY SYMBOL INDICATED "EXISTING TO BE RELOCATED." NO LETTER INDICATES NEW.

NEW/RELOC.	EXISTING	REMOVED	LIGHTING LEGEND
			24" X 48" FLUORESCENT / INDIRECT FIXTURE
			24" X 24" FLUORESCENT / INDIRECT FIXTURE
			12" X 24" FLUORESCENT / INDIRECT FIXTURE
			TWO TUBE UTILITY FLUORESCENT LIGHT FIXTURE
			RECESSED DOWNLIGHT FIXTURE
			RECESSED WALL WASHER FIXTURE
			EXIT SIGN - ARROWS INDICATE DIRECTION OF TRAVEL
			EMERGENCY LIGHT
			SUPPLY / RETURN AIR GRILLE
			UNDER COUNTER LIGHT FIXTURE
			CEILING HEIGHT ELEVATION (A.F.F.)
			"STIPPLED" AREA INDICATES GYP. BD. CLG.

PLAN NOTES

(A) NEW TILE IN EXISTING CLG. GRID.

(B) EXISTING C.L.G. & FIXTURES TO REMAIN.

(C) ALUM. SUN SCREEN AS SPEC'D.

(D) EXIST. CONT. SIDEWALL GRILLES TO REMAIN.

(E) RELOCATED SALVAGED H.V.A.C GRILLES, DESIGNATED "R". RUN FLEX. DUCTS FROM EXIST. DUCTWORK. CONTACT ARCHITECT FOR BALANCE AND APPROVAL.

(F) SUSPENDED CEILING CLOUD BELOW BARREL VAULT.

(G) REF. ELEVATIONS ON SHEET 240 FOR LIGHT FIXTURE LOCATION.

(H) GLAZED SUN SCREEN WHERE HATCHED. REFER WALL SECTION FOR DETAILS

01 REFLECTED CEILING PLAN

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

NORTH

NOTE:
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REFLECTED CEILING PLAN

251

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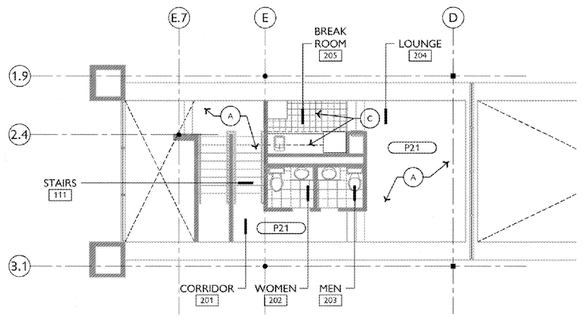
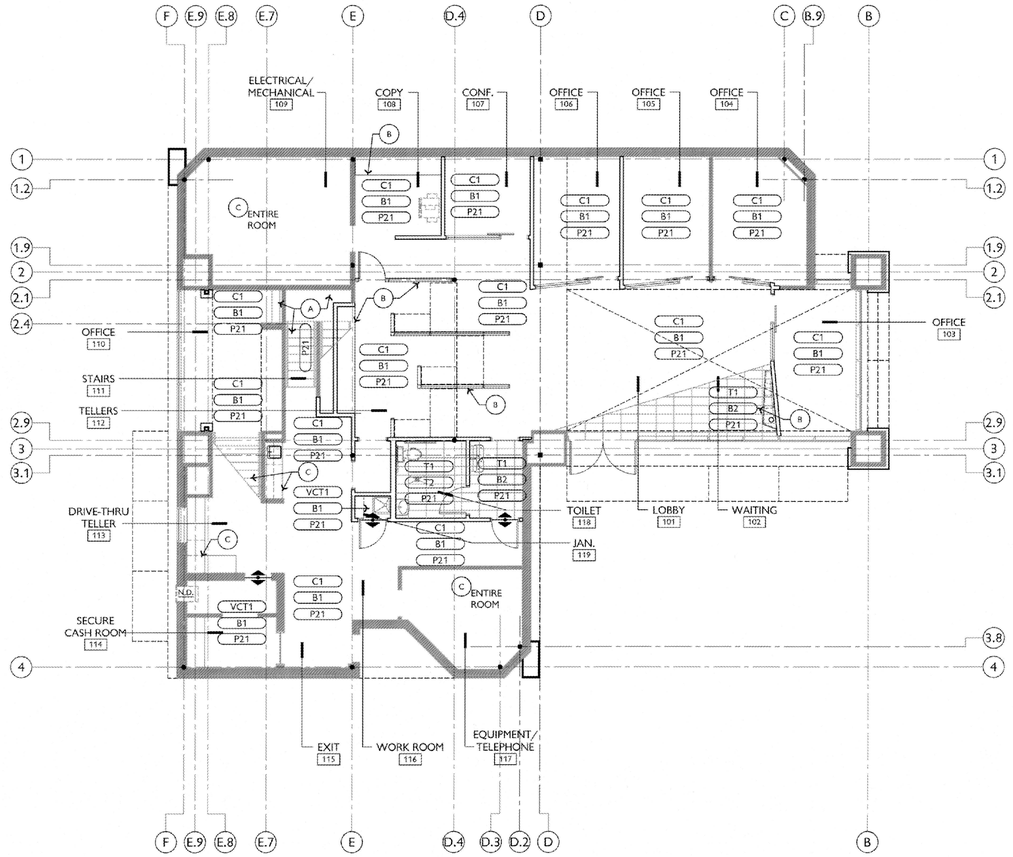


02 FINISH PLAN - MEZZANINE
SCALE: 1/8" = 1'-0"

NORTH



GENERAL NOTES - FINISHES

F1 ALL FINISHES SHALL BE BID AS SPECIFIED. ANY SUBSTITUTION MUST BE APPROVED BY THE ARCHITECT PRIOR TO SUBMISSION OF PRICING.

F2 CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY LEAD TIMES FOR ALL FINISHES. ALL DELIVERY TIMES MUST BE CONFIRMED AND ANY FINISHES THAT HAVE EXCESSIVE LEAD TIMES, THUS NOT PERMITTING INSTALLATION IN THE ESTABLISHED TIMEFRAMES, SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION IMMEDIATELY.

F3 ALL FINISHES SHALL BE INSPECTED UPON ARRIVAL TO THE JOB SITE FOR DEFECTS AND DYE LOT CONSISTENCY. NOTIFY ARCHITECT OF ANY DEFECTS PRIOR TO INSTALLATION. THE ARCHITECT SHALL ALSO BE NOTIFIED IMMEDIATELY OF ANY INSTALLATION PROBLEMS.

F4 ALL FINISHES SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

F5 THE CONTRACTORS MOISTURE TESTING OF SLAB SHALL BE CONDUCTED IN A TIMELY MANNER, AS TO NOT DELAY FINAL INSTALLATION OF FLOORING FINISHES. THIS COORDINATION OF TESTING, INCLUDING TIME FOR INTERPRETATION OF RESULTS, SHALL BE INCLUDED IN PROJECT SCHEDULE.

F6 ALL SURFACES SHALL BE PREPARED APPROPRIATELY TO RECEIVE THE SPECIFIED FINISH.

F7 ALL IMPERFECTIONS AND SLIGHT DEPRESSIONS IN THE FLOOR SURFACE SHALL BE SKIM COATED.

F8 WHERE FLOOR FINISHES OF DIFFERENT THICKNESSES MEET, FLOOR SHALL BE FILLED TO A MAXIMUM SLOPE OF 1/4" PER 12'-0" TO ALLOW A SMOOTH TRANSITION.

F9 WHERE FLOOR FINISHES MEET AT DOORWAYS, TRANSITION OF FINISHES SHALL OCCUR DIRECTLY UNDER THE CENTER OF THE CLOSED DOOR LEAF, U.N.O.

F10 PROVIDE REDUCER STRIP WHERE FLOOR FINISHES OF DIFFERENT MATERIALS OCCUR. APPROPRIATE TO THE TRANSITION. PROVIDE BLACK COLOR TRANSITION STRIP, U.N.O.

F11 FINISHES OF THE SAME KIND SHALL ALIGN AND NAP, WEAVE OR PATTERN SHALL RUN IN THE SAME DIRECTION U.N.O.

F12 BASE SHALL BE INSTALLED USING WHOLE UNITS. NO PIECE SHALL BE SMALLER THAN 1'-0" AT A CORNER CONDITION, PRIOR TO PRE-MOLDED CORNERS. PRE-MOLDED CORNERS SHALL BE UTILIZED ON ALL EXTERIOR CORNERS.

F13 NONE OF THE FINISHES SHALL BE INSTALLED UNDER CONDITIONS WHICH WOULD JEOPARDIZE THE QUALITY OF THE WORK. ALL WORKMANSHIP WHICH IS JUDGED TO BE LESS THAN FIRST QUALITY BY THE ARCHITECT SHALL BE REJECTED, AND REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.

F14 REMOVE EXISTING ELECTRICAL TRIM, HARDWARE, ETC. PRIOR TO THE INSTALLATION OF FINISHES. ANY ITEM THAT CANNOT BE REMOVED, SHALL BE MASKED. UPON COMPLETION OF FINISH INSTALLATION, ALL REMOVED/MASKED ITEMS SHALL BE RETURNED TO ORIGINAL CONDITION, U.N.O.

F15 PROTECT NEWLY INSTALLED FINISHES FROM DAMAGE THAT MAY OCCUR FROM OTHER TRADES.

F16 EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND TOUCH-UP FINISHED WITH TOUCHUP AS REQUIRED.

F17 REMOVE ALL PAINT OR STAIN SPILLED, SPLATTERED, OR SPLASHED ON ADJACENT SURFACES.

F18 ALL FINISHES SHALL BE IN A "LIKE NEW" CONDITION FOR ACCEPTANCE BY THE OWNER.

F19 UNLESS NOTED OTHERWISE ALL WALLS AND COLUMNS SHALL BE P21

F20 UNLESS NOTED OTHERWISE ALL BASE SHALL BE B1

F21 UNLESS NOTED OTHERWISE ALL CARPET SHALL BE C1

F22 UNLESS NOTED OTHERWISE ALL GYP. BD. CEILING SHALL BE P24

F23 REFER DOOR SCHEDULE FOR DOOR AND FRAME FINISHES.

F24 PROVIDE SCHLUTER STRIPS AT EDGE OF HARD SURFACE.

NOTE:
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FINISH DESCRIPTION LEGEND:

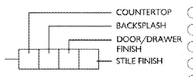
PAINT DESCRIPTION

P11
- COLOR (REFER TO SPECIFICATIONS)
- TYPE OF FINISH
  1. SEMI-GLOSS
  2. EGGSHELL
  3. SATIN
  4. FLAT
  5. SEMI-GLOSS OIL BASE ENAMEL
  6. INDUSTRIAL ENAMEL

WALLCOVERING DESCRIPTION

V11
- COLOR
- PATTERN
- WALLCOVERING IDENTIFICATION
  V. VINYL
  F. FABRIC
  W. WOOD

MILLWORK FINISHES



MILLWORK FINISHES

CHANGE IN FINISHES PROVIDE REDUCER STRIP (BLACK) AT CARPET TO VCT & SCHLUTER STRIPS AT CARPET TO CERAMIC TILE.

FINISH LEGEND

B1	BASE TYPE
C1	CARPET TYPE
L1	PLASTIC LAMINATE
P21	PAINT TYPE
V11	VINYL WALL FINISH
VCT1	VINYL COMP. TILE INDICATES ALL SURFACES U.N.O.

LEGEND:

PAINT
SUBMIT 12" X 12" SAMPLES (3 EACH)

P21	SHERWIN WILLIAMS KILIM BEIGE SW-6106 EGGSHELL
P22	BENJAMIN MOORE HAMPSHIRE GRAY HC-101 EGGSHELL
P23	SHERWIN WILLIAMS LATTE SW-6108 EGGSHELL
P24	SHERWIN WILLIAMS WHITE T.B.D. T.B.D. EGGSHELL

LAMINATE
SUBMIT 6" X 6" SAMPLES (3 EACH)

L1	WILSONART MISSION STONE #4833-38
L2	WILSONART SATIN BRUSHED NATURAL ALUMINUM #6257
L3	WILSONART MISSION SAGE 4848-38

SOLID SURFACE
SUBMIT 8" X 6" SAMPLES (3 EACH)

SS1	CAMBRIA DESERT COLLECTION #2095 SUSSEX 1/2" THICK

WOOD
SUBMIT 6" X 6" SAMPLES (3 EACH)

WD1	WOOD SPECIES & FINISH TO MATCH FURNITURE, CONTACT ARCHITECT FOR COLOR SAMPLE

CARPET
SUBMIT 6" X 6" SAMPLES (3 EACH)

C1	BOLYU CONTRACT RHYTHMICS TILE STYLE NUMBER NUANCED NEUTRAL #RTM12 QUARTER-TURNED CARPET TILE

CERAMIC TILE
SUBMIT 6" X 6" SAMPLES (3 EACH)

T1	AMERICAN TILE MAR1000 12"X24" STREAMING; OLIVE 7550
T2	AMERICAN TILE SUP303 6"X24" MY MOOD; MY SKIN VERTICAL INSTALL
T3	DAL-TILE GRANITE RADIANCE SANTA CECILLA BLEND #GR65 12" X 13 3/4" MOSAIC TILE

VINYL COMP. TILE
SUBMIT 6" X 6" SAMPLES (3 EACH)

VCT1	ARMSTRONG RAFFIA SMOKE 55804 12 x 24 x 1/8 TILES

BASE
SUBMIT SAMPLES (3 EACH)

B1	ROPPE P-193 BLACK-BROWN 2 1/2" COVE

USE PREMOLDED CORNERS AT ALL EXTERIOR CORNERS

B2	AMERICAN TILE SUP303 6"X24" MY MOOD; MY SKIN HORIZONTAL INSTALL

PLAN NOTES

A PAINT ONLY IN THESE AREAS. PROTECT ALL OTHER EXISTING FINISHES TO REMAIN.

B REFER. ELEVATIONS AND/OR DETAILS FOR FINISH SPECIFICATIONS.

C EXISTING FINISHES TO REMAIN AS-IS.

NOTE:
MINIMUM CLASS C MATERIALS FOR WALLS, FLOORS, CEILINGS & TRIM IN COMPLIANCE WITH SECTIONS 803 THRU 806.

01 FINISH PLAN
SCALE: 1/8" = 1'-0"

NORTH

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FINISH PLAN

271

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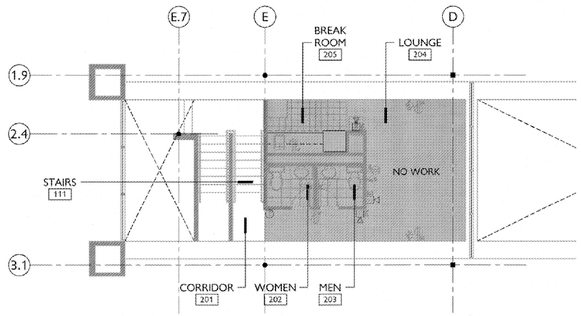
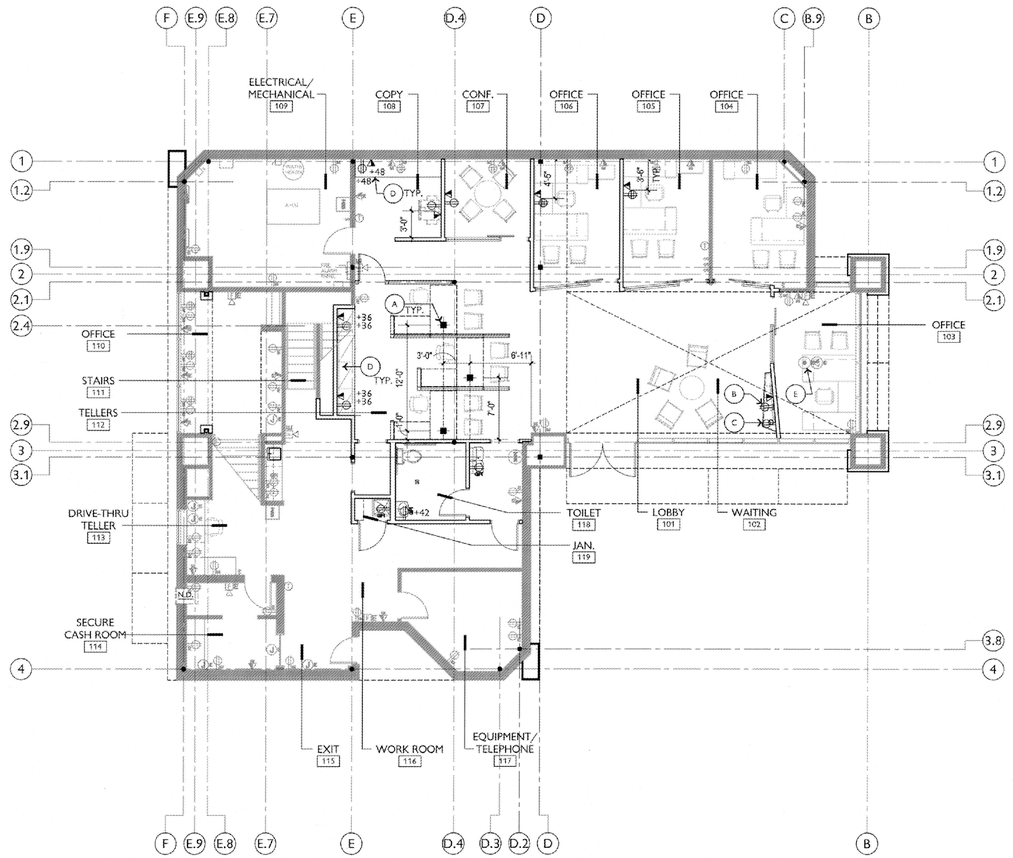


02 COMMUNICATION PLAN - MEZZANINE

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

NORTH



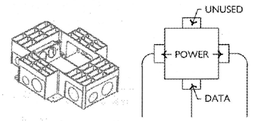
01 COMMUNICATION PLAN

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

NORTH

FLOOR BOX SPECIFICATIONS

WIREMOLD RFB4 FOUR-COMPARTMENT COMBINATION BOX



- PROVIDE 3 EA. 3/4" EMT CONDUIT TO EACH BOX
- PROVIDE 2 EA. RFB-DR INTERNAL DUPLEX BRACKET
- PROVIDE 1 EA. RFB4-LPB COMMUNICATION BRACKET

PLAN NOTES

(A) RECESSED FLOOR BOX WITH CONDUITS & PULL STRINGS FOR VOICE /DATA & POWER PROVIDE FLUSH COVER TO ALLOW HARD SURFACE FLOOR COVERING. TO BE INSTALLED OVER BOX UNTIL CONDUCTORS ARE INSTALLED.

(B) PROVIDE WALL MOUNTED SINGLE GANG BOX FOR CABLE TV. CABLE NEXT TO 120V OUTLET FOR MILLWORK MOUNTED TV. OUTLETS SHALL BE AT 60" A.F.F.

(C) PROVIDE DUPLEX OUTLET AT 24" A.F.F. INSIDE MILLWORK.

(D) REFER ELEVATIONS FOR OUTLET LOCATIONS.

(E) EXISTING FLOOR OUTLET TO REMAIN.

RETAIN ALL ELECTRICAL DEVICES IN AREA OF NEW WORK SHOWN ON DRAWING AS EXISTING, UNLESS NOTED OTHERWISE REFER NOTE (E14) SHEET 011.06 FOR NEW DEVICES.

REFER SHEET 002 FOR OUTLET LOCATION HEIGHTS AND RELATION TO OTHER DEVICES.

NOTE:
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REGISTERED ARCHITECT JACK W. KIENAST 1-28-13 STATE OF TEXAS

REVISIONS

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COMMUNICATION PLAN

281

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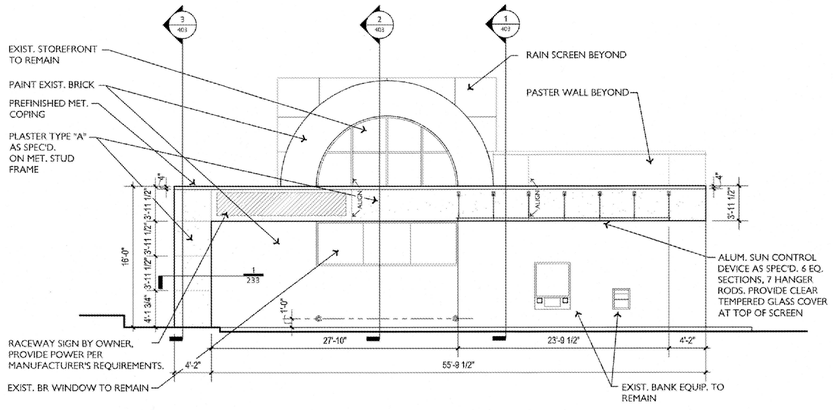
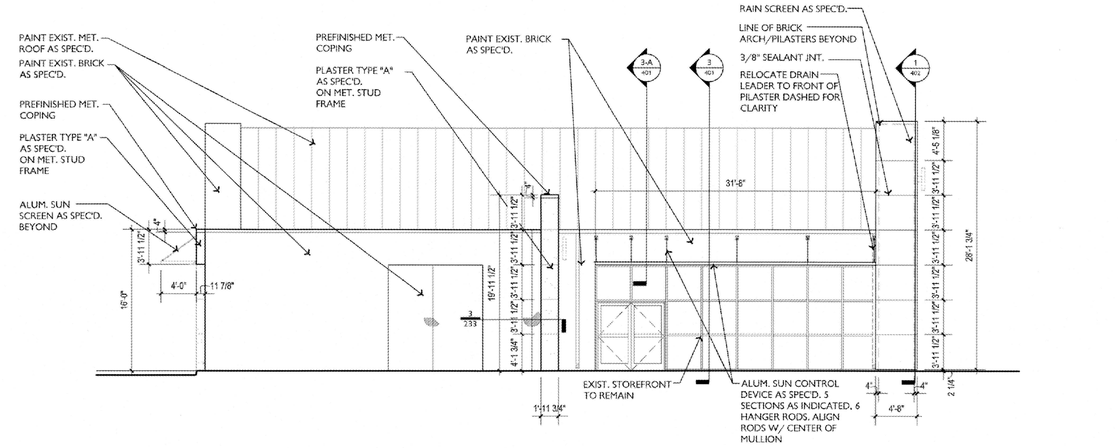
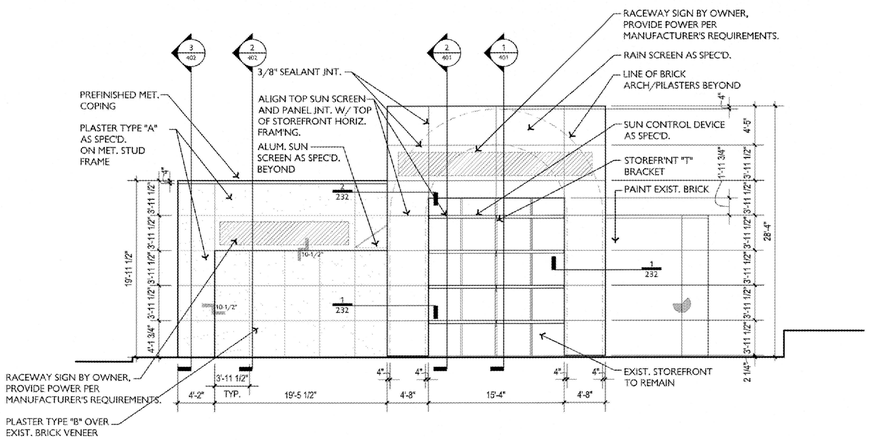


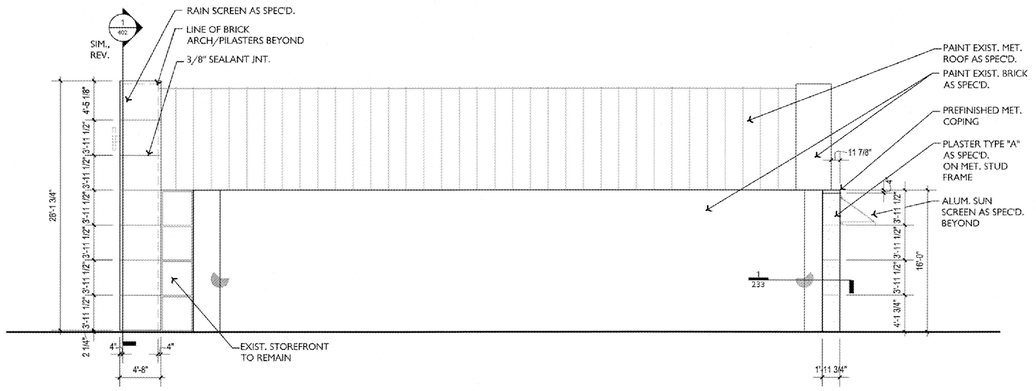
4 WEST ELEVATION
SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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

ALEXANDER + KIENAST + SCHNITZ
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REGISTERED ARCHITECT — JACK W. KIENAST — 12-13-12 — STATE OF TEXAS

REVISIONS

DATE: 12.31.2012

PROJECT NO: 1220

ISSUED FOR: PERMIT,PRICING & CONSTRUCTION

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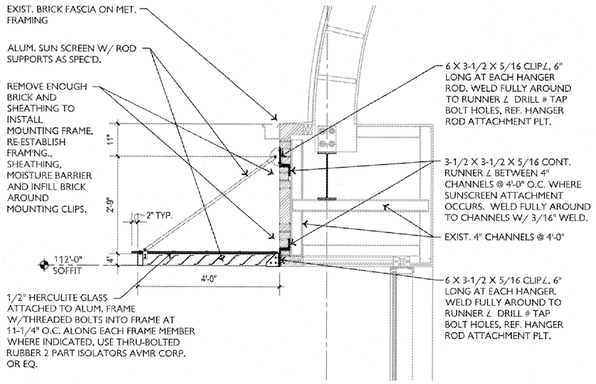
GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

EXTERIOR ELEVATIONS

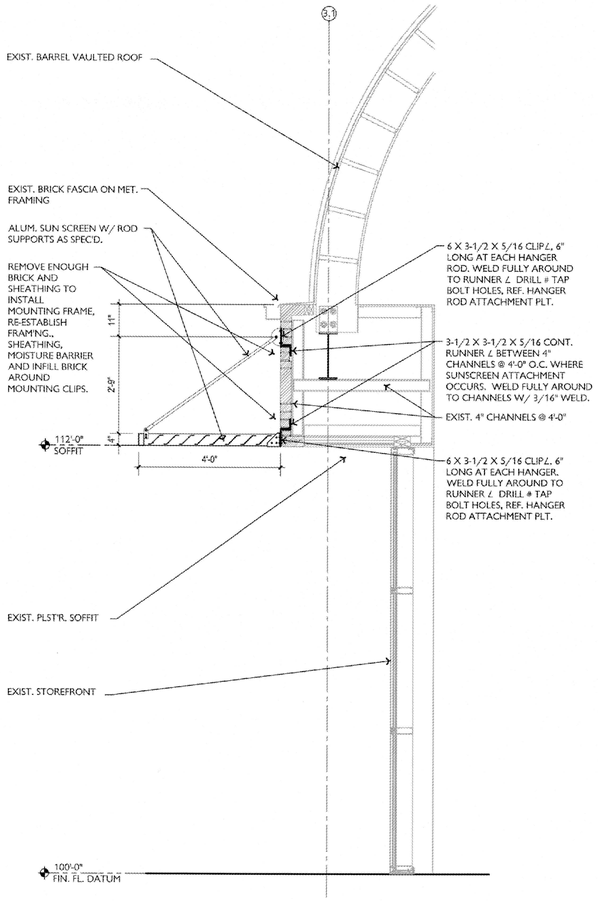
300

J:\Tdwg\2012\1220 - Greenbank Dallas North Tollway\Sheets\300 - Exterior Elevations\300 Exterior Elevations.dwg Jan 28, 2013 02:03pm AKS-109-PC



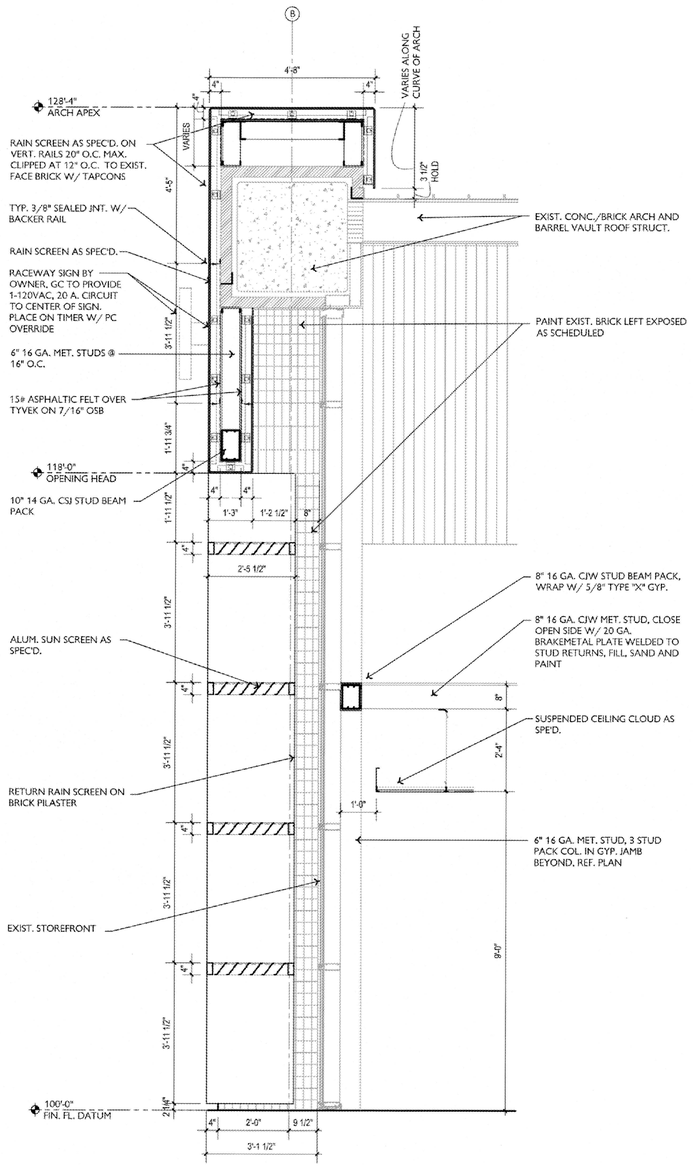
3-A SECTION FRONT ENTRY SUN SCREEN GLAZED

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



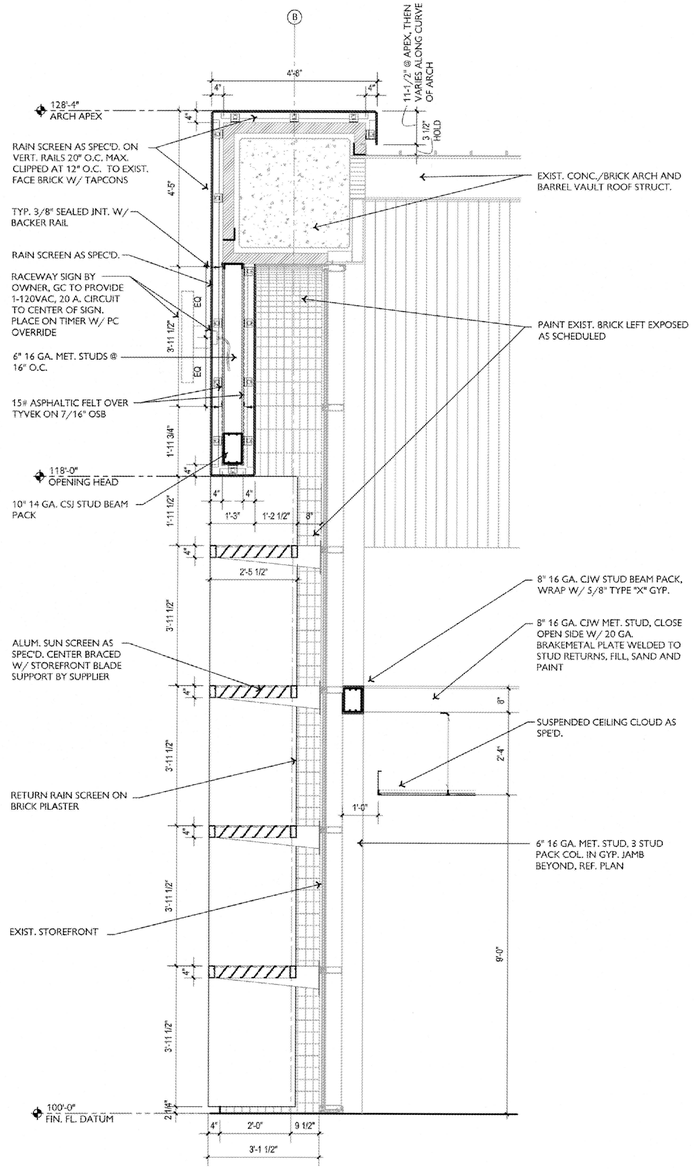
3 SECTION FRONT ENTRY SUN SCREEN

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



2 SECTION FRONT ARCH OFF-CENTER

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



1 SECTION FRONT ARCH CENTER

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

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REGISTERED ARCHITECT
INGA W. KIENAST
STATE OF TEXAS
01.28.13

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PROJECT NO:
1220
ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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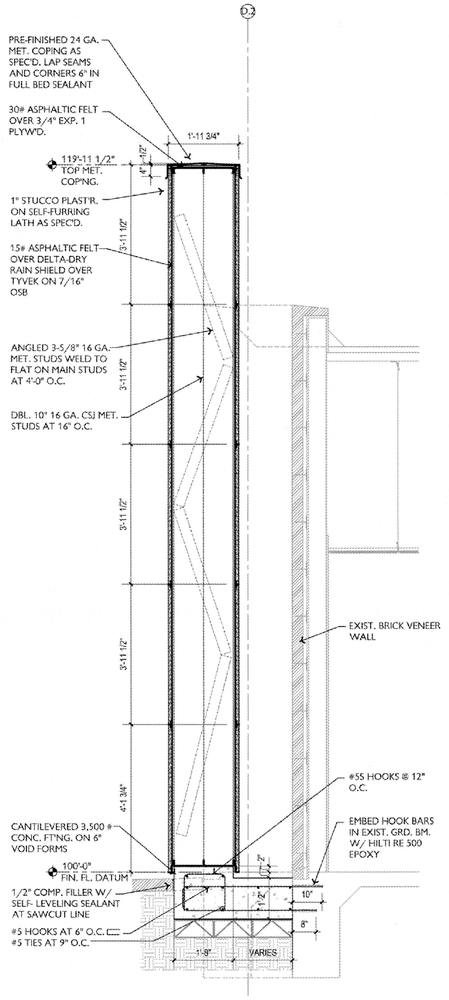
GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

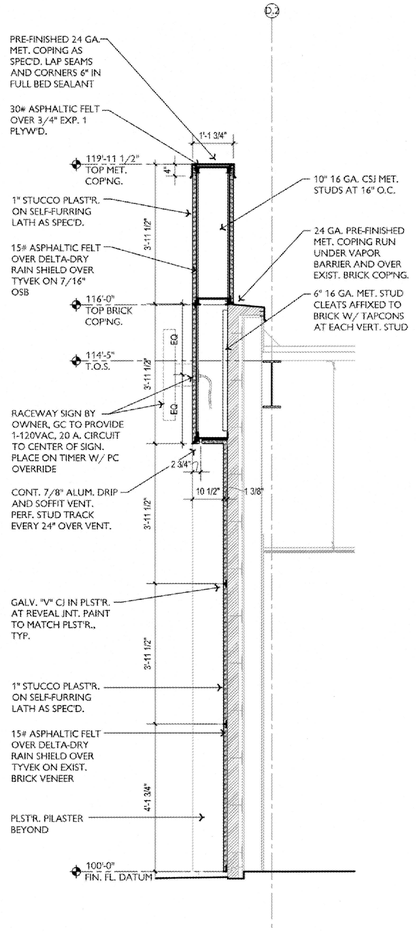
WALL SECTIONS

401

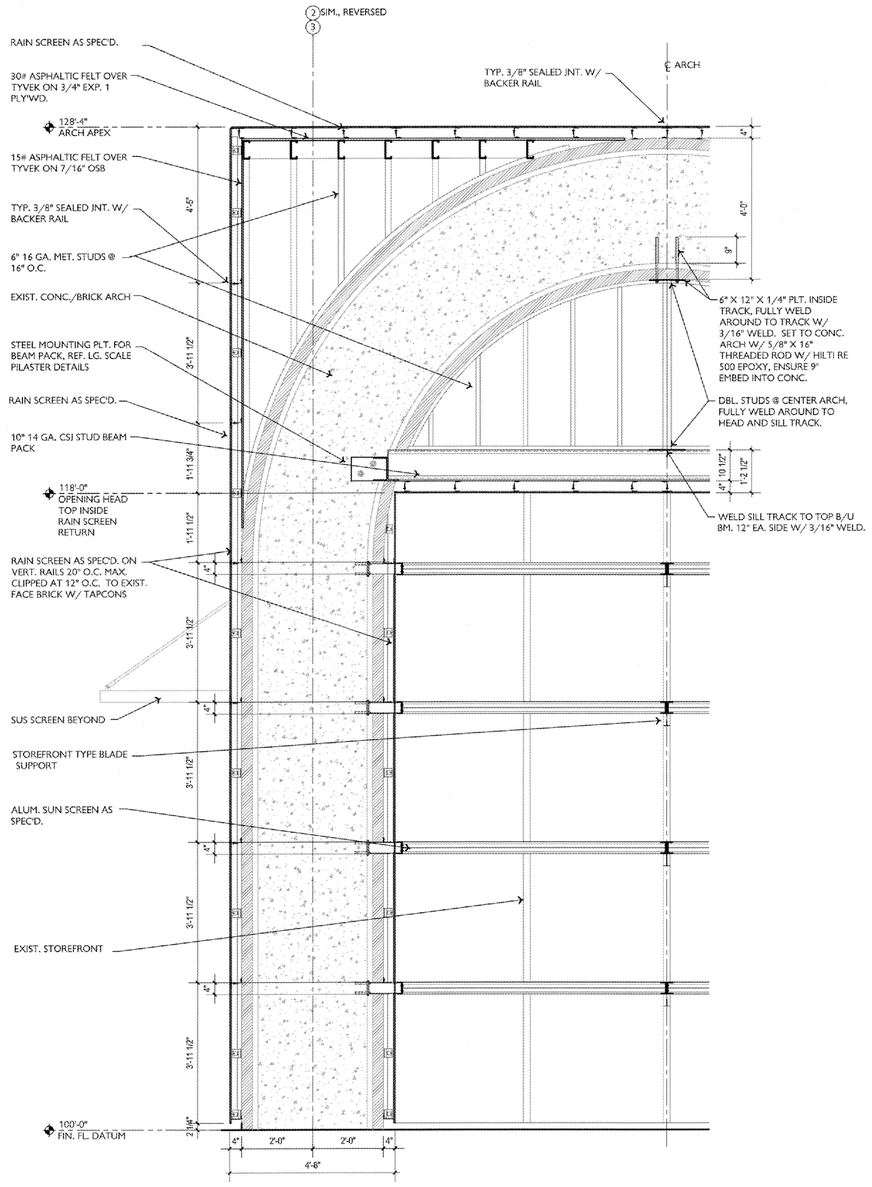
J:\Dwg\2012\1220 - Greenbank Dallas North Tollway\Sheets\400 - Exterior Sections\401 Wall Sections.dwg Jan 28, 2013 02:20pm AKS-109-PC



3 SECTION FRONT ENTRY FLYING WALL
SCALE: 1/2" = 1'-0"



2 SECTION FRONT ENTRY FEATURE WALL
SCALE: 1/2" = 1'-0"



1 SECTION FRONT ARCH LONGITUDINAL
SCALE: 1/2" = 1'-0"

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REGISTERED ARCHITECT
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ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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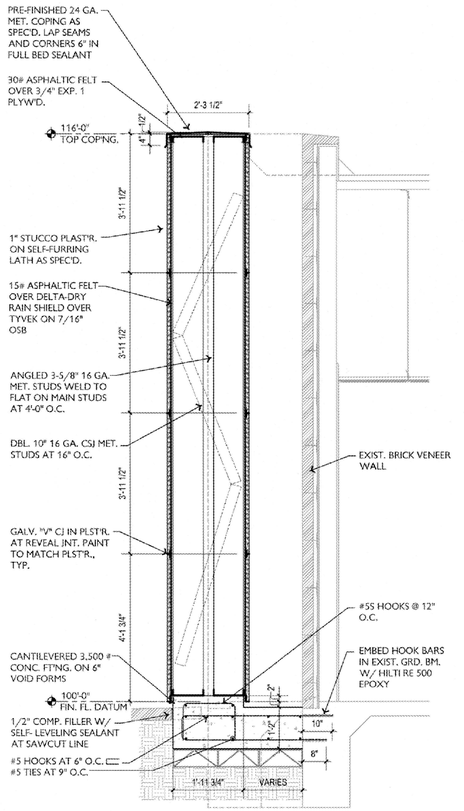
16771 Dallas Parkway
Addison, TX 75001

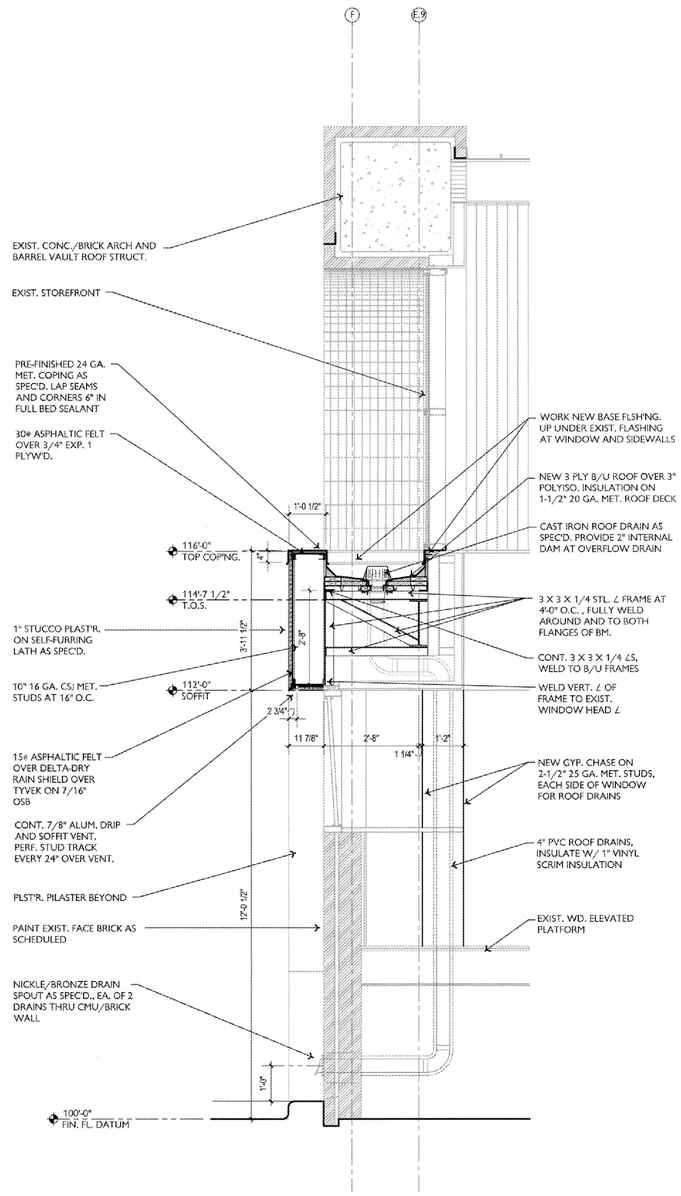
WALL SECTIONS

402

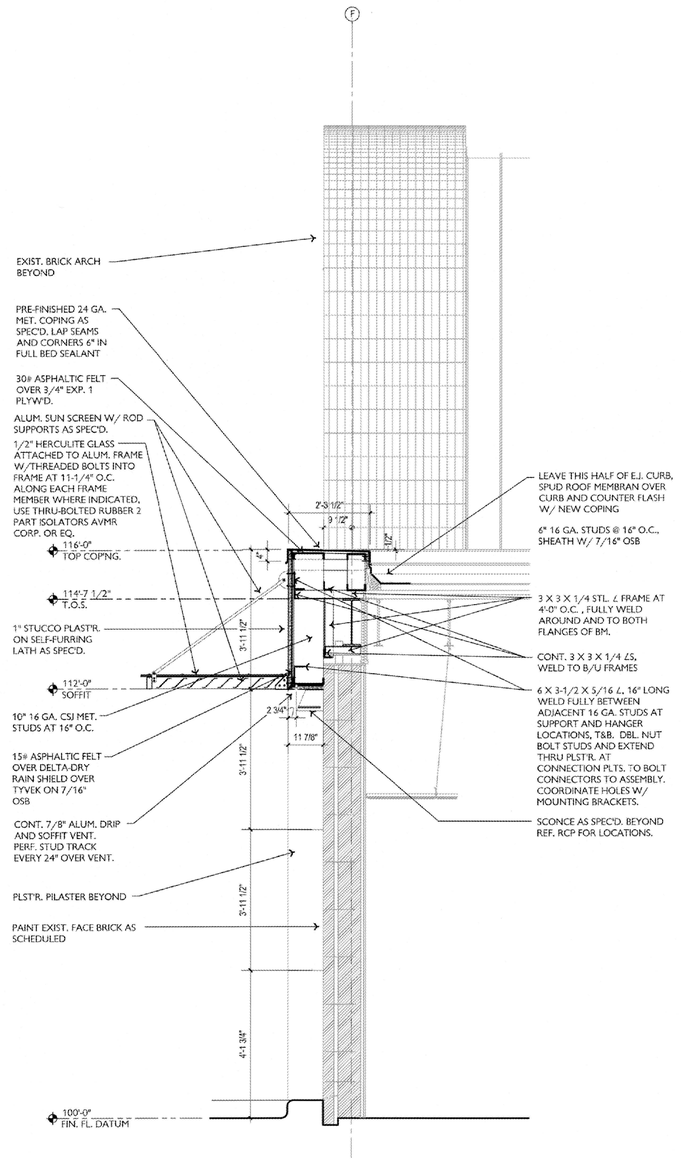
J:\Jobs\2012\1220 - Greenbank Dallas North Tollway\Sheets\400 - Exterior Sections\402 Wall Sections.dwg Jan 28, 2013 10:40pm AKS-109-PC



3 SECTION DRIVE-IN FLYING WALL
SCALE: 1/2" = 1'-0"



2 SECTION DRIVE-IN FEATURE AT ARCH
SCALE: 1/2" = 1'-0"



1 SECTION DRIVE-IN FEATURE AT SUN SCREEN
SCALE: 1/2" = 1'-0"

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REGISTERED ARCHITECT
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1-28-13

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PROJECT NO:
1220
ISSUED FOR:
PERMIT,PRICING & CONSTRUCTION

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WALL SECTIONS

403

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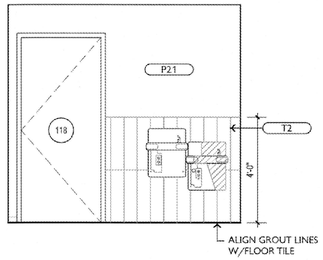
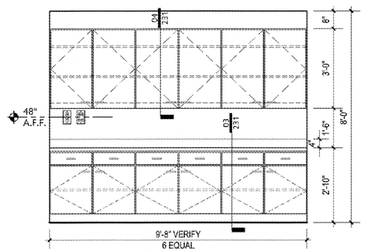
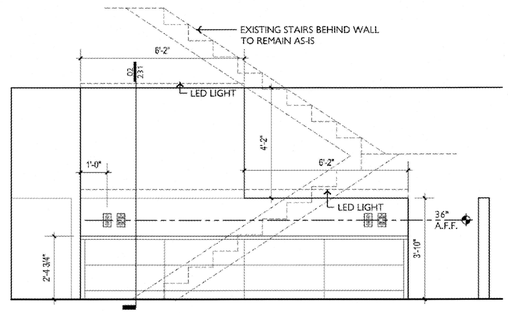


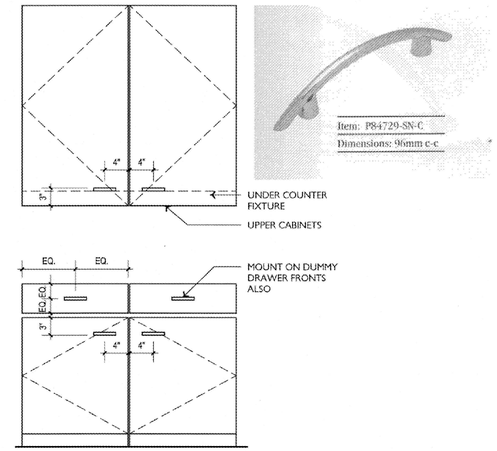
06 ELEVATION AT EWC
SCALE: 3/8" = 1'-0"



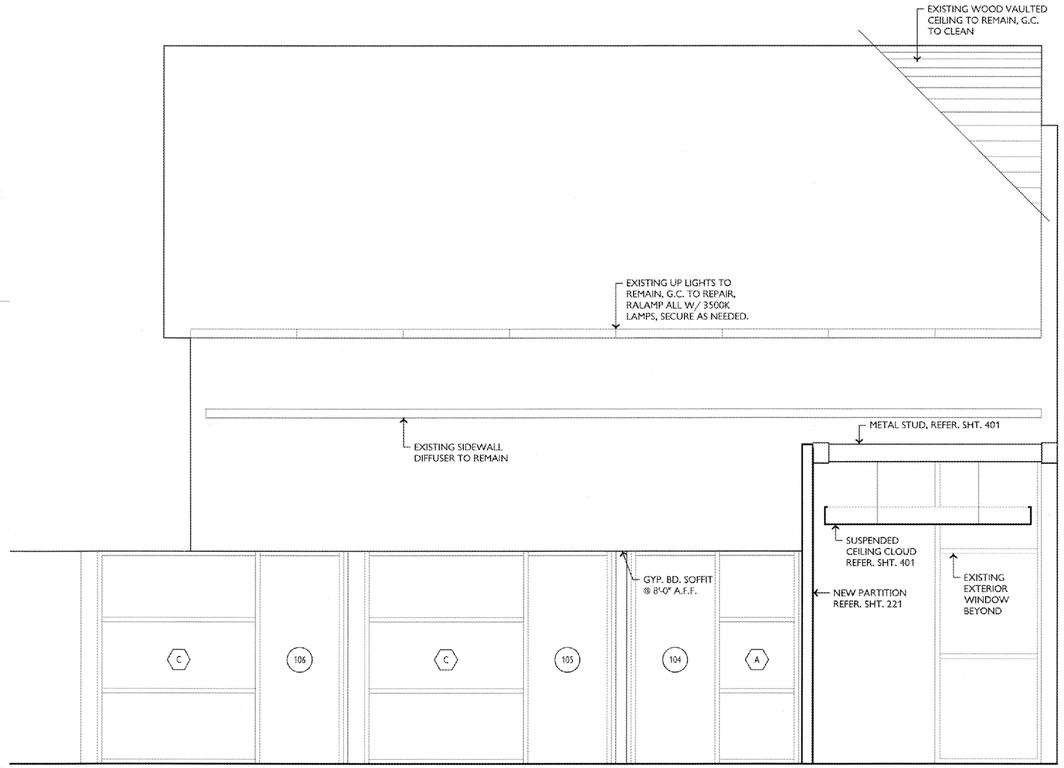
05 ELEVATION AT COPY 108
SCALE: 3/8" = 1'-0"



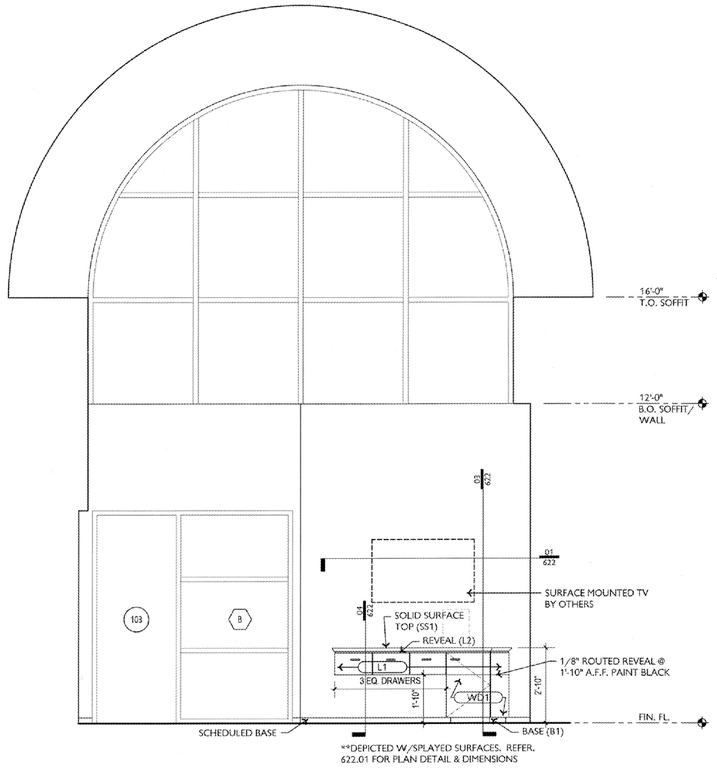
04 ELEVATION AT TELLERS BACK WALL
SCALE: 3/8" = 1'-0"



03 MILLWORK PULL DETAIL TYP.
SCALE: 1" = 1'-0"



02 ELEVATION AT OFFICES
SCALE: 3/8" = 1'-0"



01 ELEVATION AT WAITING 102
SCALE: 3/8" = 1'-0"

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KIENAST
SCHNITZ
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INTERIOR DESIGN
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STATE OF TEXAS

REVISIONS

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01.28.13
PROJECT NO:
1220
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INTERIOR
ELEVATIONS

510

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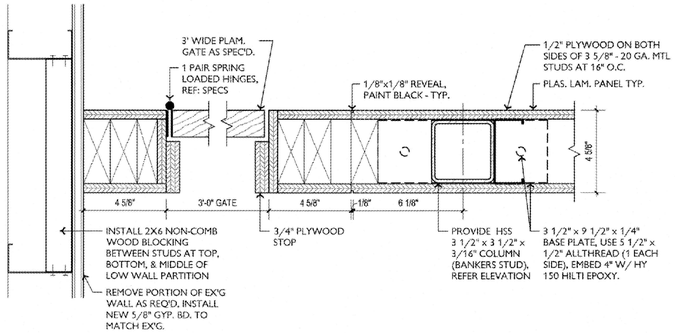
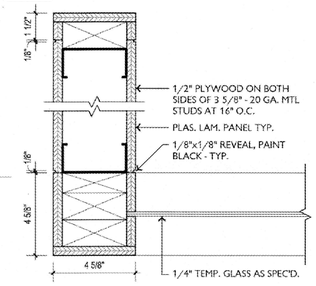
PLASTIC LAMINATE: L1

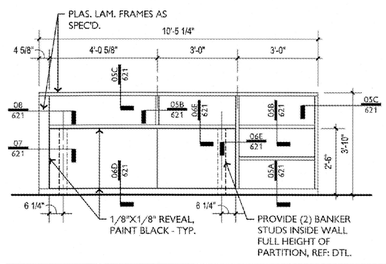
13 OPEN
SCALE:



09 DETAIL AT GATE
SCALE: 3" = 1'-0"

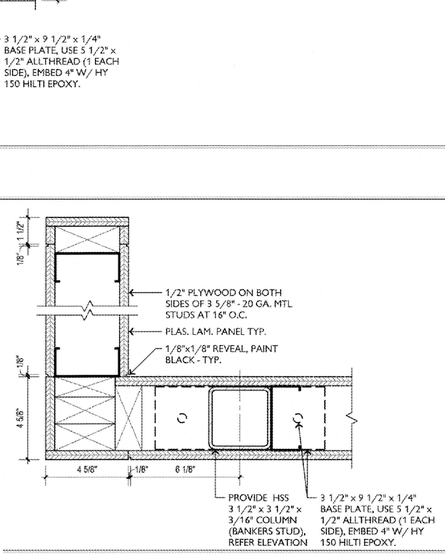


08 DETAIL AT CORNER - UPPER
SCALE: 3" = 1'-0"

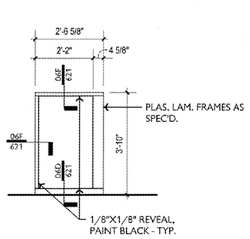


04 ELEVATION
SCALE: 3/8" = 1'-0"

12 OPEN
SCALE:

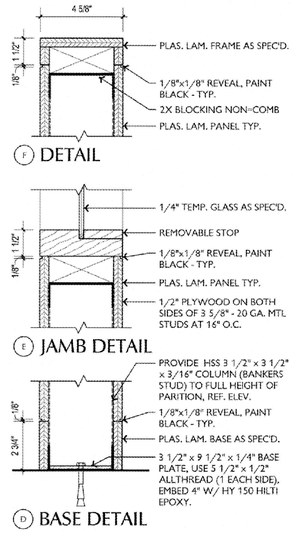


07 DETAIL AT CORNER - LOWER
SCALE: 3" = 1'-0"

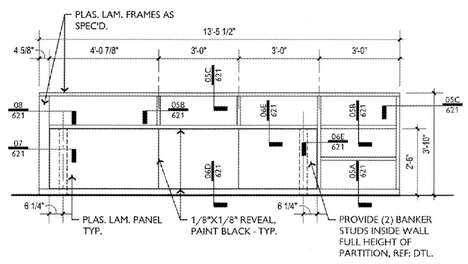


03 ELEVATION
SCALE: 3/8" = 1'-0"

11 OPEN
SCALE:

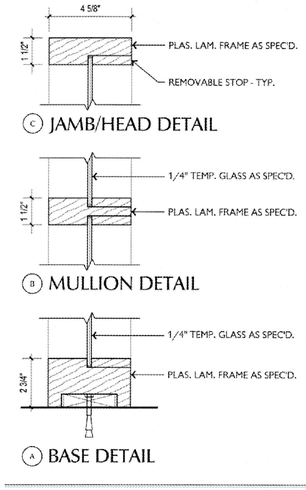


06 DETAILS
SCALE: 3" = 1'-0"

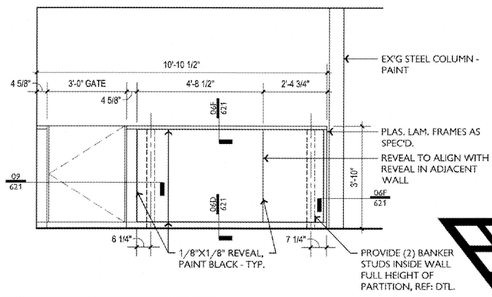


02 ELEVATION
SCALE: 3/8" = 1'-0"

10 FINISHES ALL MILLWORK THIS SHEET
SCALE:



05 DETAILS
SCALE: 3" = 1'-0"



01 ELEVATION
SCALE: 3/8" = 1'-0"

ALEXANDER + KIENAST + SCHNITZ
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REGISTERED ARCHITECT
MICHAEL W. KIENAST
STATE OF TEXAS

REVISIONS

DATE:
01.28.13
PROJECT NO:
1220
ISSUED FOR:
PERMIT,PRICING & CONSTRUCTION

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Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

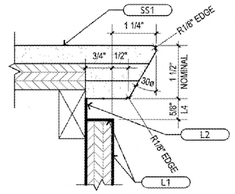
MILLWORK - LOW WALL

621

J:\1Jobs\2012\1220 - Greenbank Dallas North Tollway\Sheets\600 - Millwork\Vu21 Millwork - Low Wall.dwg Jun 28, 2013 02:01pm AKS-108-PC

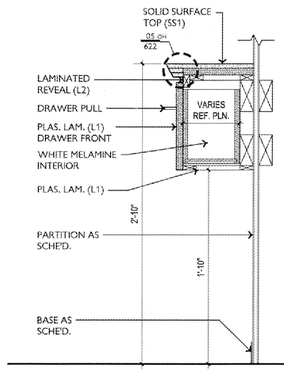
12 OPEN
SCALE:

11 OPEN
SCALE:

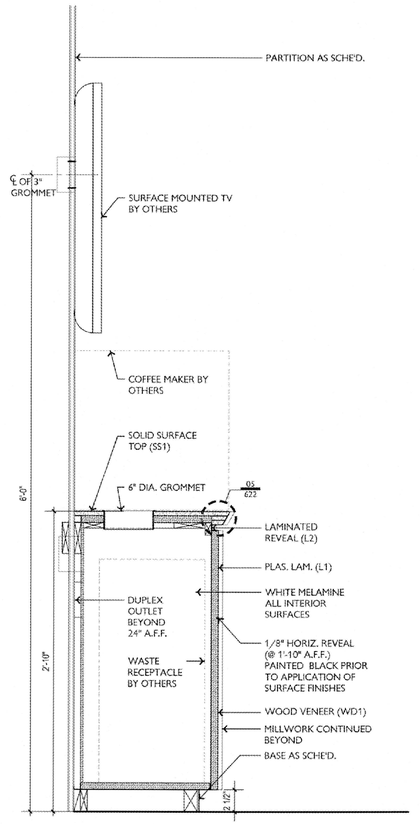


05 COUNTER DETAIL
SCALE: 6" = 1'-0"

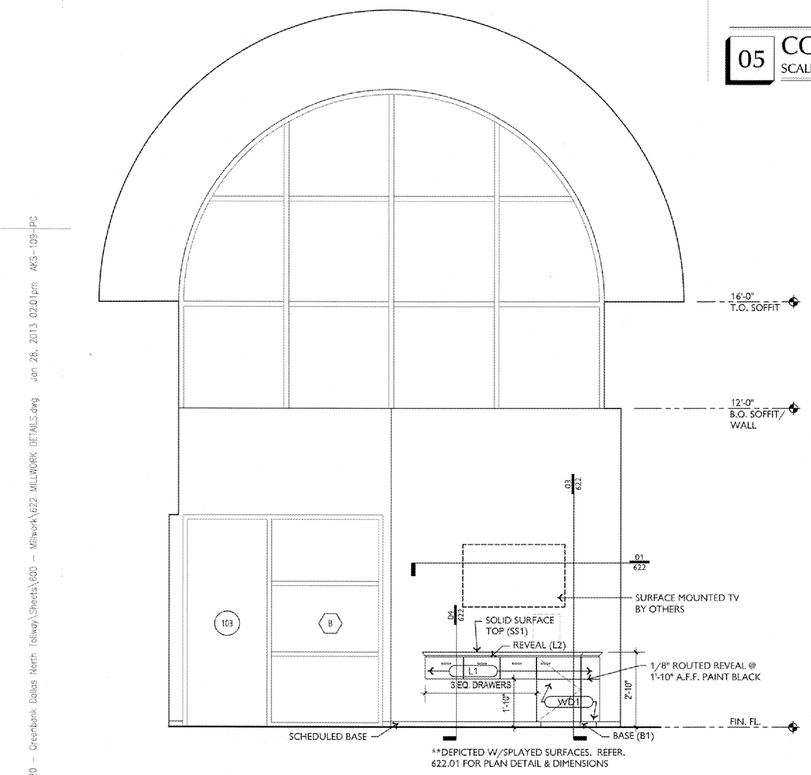
10 OPEN
SCALE:



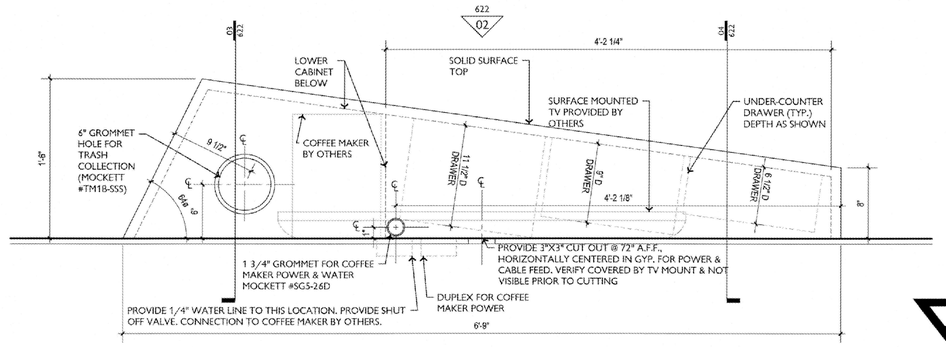
04 CHECK DESK DRAWER SECTION
SCALE: 1 1/2" = 1'-0"



03 CHECK DESK SECTION DTL
SCALE: 1 1/2" = 1'-0"



02 ELEVATION @ WAITING 102
SCALE: 3/8" = 1'-0"



01 CHECK DESK - PLAN VIEW SECTION
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT
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1.28.13
#11841
STATE OF TEXAS

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01.28.13
PROJECT NO:
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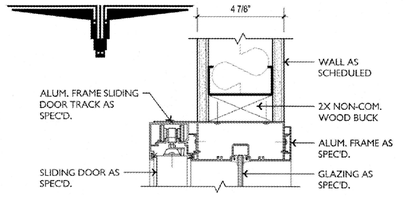
GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

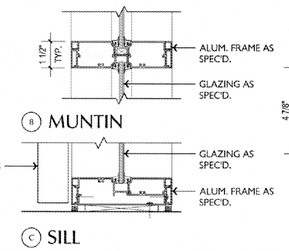
MILLWORK DETAILS

622

J:\1dwg\2012\1220 - Greenbank Dallas North Tollway\Sheets\600 - Millwork\622 MILLWORK DETAILS.dwg Jan 28, 2013 02:01pm AKS-109-PC

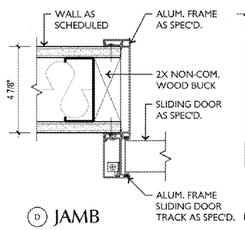


A HEAD



B MUNTIN

C SILL



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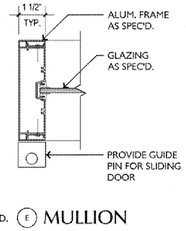

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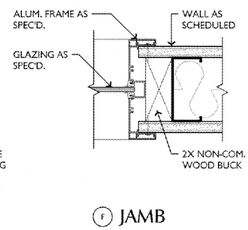
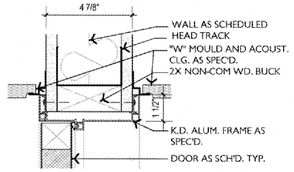


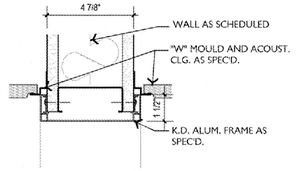
F JAMB

06 SLIDING DOOR SYSTEM

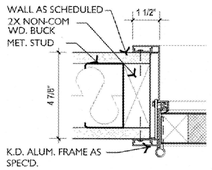
SCALE: 3" = 1'-0"



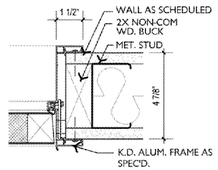
G TYPICAL DOOR HEAD



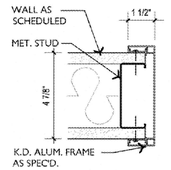
K DOOR HEAD



H TYP. HINGE JAMB



J TYP. STRIKE JAMB



L DOOR JAMB

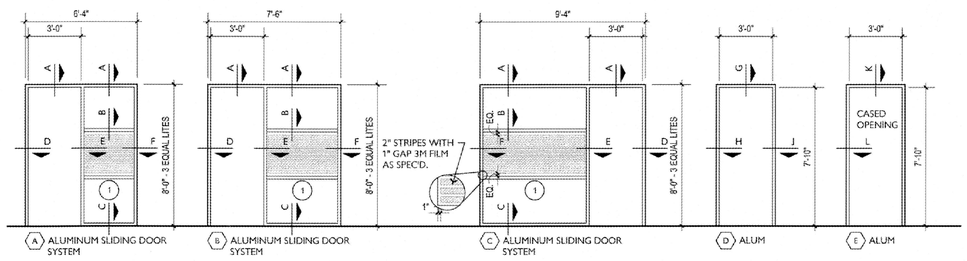
04 INTERIOR DOOR FRAME DETAILS

SCALE: 3" = 1'-0"

GLASS TYPES:

1 1/4" CLEAR TEMPERED FLOAT GLASS.

NOTE:
ALL FRAMES TO BE DARK BRONZE



A ALUMINUM SLIDING DOOR SYSTEM

B ALUMINUM SLIDING DOOR SYSTEM

C ALUMINUM SLIDING DOOR SYSTEM

D ALUM

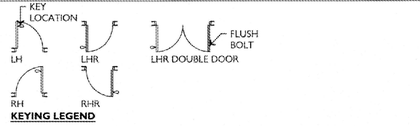
E ALUM

02 FRAME TYPES

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

05 HARDWARE SCHEDULE

SCALE:



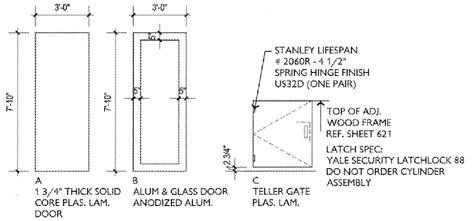
KEYING LEGEND

NUMBER	DOOR INFORMATION									DOOR FRAME INFORMATION					REFER SHEET 700		REMARKS
	DOOR TYPE	DESCRIPTION	WD	HGT	THK	RATING	DOOR FINISH	HARDWARE	KEYING	FRAME TYPE	DESCRIPTION	RATING	FRAME FINISH		JAMB	HEAD	
101	SALVAGED EXG.	SALVAGED EXG.	3'-0"	7'-10"	1 3/4"	–	ALUM.	X1	LH/RHR	EXG.	ALUM.	–	ALUM.		–	–	REUSE SALVAGED STOREFRONT DOOR, HARDWARE & GLAZING
103	B	ALUM/GLASS	3'-0"	7'-10"	1 3/4"	–	ALUM.	Z1	RH	B	ALUM.	–	ALUM.		D	A	–
104	B	ALUM/GLASS	3'-0"	7'-10"	1 3/4"	–	ALUM.	Z1	RH	A	ALUM.	–	ALUM.		D	A	–
105	B	ALUM/GLASS	3'-0"	7'-10"	1 3/4"	–	ALUM.	Z1	LH	C	ALUM.	–	ALUM.		D	A	–
106	B	ALUM/GLASS	3'-0"	7'-10"	1 3/4"	–	ALUM.	Z1	LH	C	ALUM.	–	ALUM.		D	A	–
107	B	ALUM/GLASS	3'-0"	7'-10"	1 3/4"	–	ALUM.	Z1	LH	C	ALUM.	–	ALUM.		D	A	–
112A	C	PLAM. TELLER GATE	3'-0"	3'-7 1/4"	1 3/4"	–	ALUM.	R2	RHR	–	PLAM.	–	PLAM.		621.09	–	–
112B	N/A	CASED OPEN'G.	3'-0"	7'-10"	1 3/4"	–	N/A	A	N/A	E	ALUM.	–	ALUM.		L	K	–
112C	N/A	CASED OPEN'G.	3'-0"	7'-10"	1 3/4"	–	N/A	A	N/A	E	ALUM.	–	ALUM.		L	K	–
113	N/A	CASED OPEN'G.	3'-0"	7'-10"	1 3/4"	–	N/A	A	N/A	E	ALUM.	–	ALUM.		L	K	–
116	A	SOLID CORE	3'-0"	7'-10"	1 3/4"	–	PLAM.	R1	LH	D	ALUM.	–	ALUM.		H	G	–
118	A	SOLID CORE	3'-0"	7'-10"	1 3/4"	–	PLAM.	V1	LH	D	ALUM.	–	ALUM.		H	G	–
119	A	SOLID CORE	3'-0"	7'-10"	1 3/4"	–	PLAM.	S1	LHR	D	ALUM.	–	ALUM.		H	G	–
E109	EXG.	EXG.	EXG.	EXG.	EXG.	–	EXG.	S3	EXG.	EXG.	EXG.	–	EXG.		–	–	PAINT DOOR
E114	EXG.	EXG.	EXG.	EXG.	EXG.	–	EXG.	S3	EXG.	EXG.	EXG.	–	EXG.		–	–	PAINT DOOR
E115	EXG.	EXG.	EXG.	EXG.	EXG.	–	EXG.	S2	EXG.	EXG.	EXG.	–	EXG.		–	–	PAINT DOOR
E117	EXG.	EXG.	EXG.	EXG.	EXG.	–	EXG.	S3	EXG.	EXG.	EXG.	–	EXG.		–	–	PAINT DOOR
E202	EXG.	EXG.	EXG.	EXG.	EXG.	–	EXG.	X1	EXG.	EXG.	EXG.	–	EXG.		–	–	–
E203	EXG.	EXG.	EXG.	EXG.	EXG.	–	EXG.	X1	EXG.	EXG.	EXG.	–	EXG.		–	–	–

03 DOOR SCHEDULE

SCALE:

NOTE:
REFER TO HARDWARE SPEC. & SCHED.
MAX. OPENING FORCE FOR EXTERIOR DOORS SHALL BE 8.5 LBS.
MAX. OPENING FORCE FOR INTERIOR DOORS SHALL BE 5 LBS.



A
1 3/4" THICK SOLID CORE PLAS. LAM. DOOR

B
ALUM & GLASS DOOR ANODIZED ALUM.

C
TELLER GATE PLAS. LAM.

01 DOOR TYPES

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

SECTION 08713 - DOOR HARDWARE SCHEDULE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. DOOR HARDWARE SET SCHEDULE.

B. SECTION 08710 (08 71 00) - DOOR HARDWARE: GENERAL ADMINISTRATIVE AND INSTALLATION REQUIREMENTS APPLICABLE TO THIS SECTION; DESCRIPTIONS OF INDIVIDUAL DOOR HARDWARE SETS.

PART 2 PRODUCTS

2.01 FINISHES

A. FINISHES FOR ALL INTERIOR HARDWARE: SATIN CHROME PLATE US26D

B. FINISHES FOR ALL EXTERIOR HARDWARE: BRUSHED STAINLESS STEEL US32D (630)

C. PROVIDE RATED HARDWARE FOR DOORS IN RATED WALLS.

2.02 HINGES AND BUTTS

A. **REFER HARDWARE SETS FOR REQUIREMENTS OF NON-REMOVABLE PINS NRP, SECURITY STUDS SH OR ELECTRIC PASS-THRU REQUIREMENTS ETW.**

B. SELECTED MANUFACTURER HINGES: HAGER
1. A1 - STANDARD DUTY FULL MORTISE.
2. A2 - HEAVY DUTY FULL MORTISE.

2.03 PUSH/PULL UNITS

A. SELECTED MANUFACTURER UTILITY PUSH/PULLS: ROCKWOOD MANUFACTURING
1. C4 - SLIDING DOOR PULL: 5/8 INCH DIAMETER, 150 INCH CTC, SMALL POSTMOUNT PULL, #RM1253 STRAIGHT.
a. MOUNT BACK TO BACK ON ALUMINUM SLIDING DOOR

2.04 CYLINDRICAL LOCKSETS

A. SELECTED MANUFACTURER FOR CYLINDRICAL LOCKSETS: BEST ACCESS: 9K SERIES
1. LOCKSETS ARE PROVIDED AND INSTALLED UNDER THIS CONTRACT.
2. LEVER STYLE: 14C
3. ROSE STYLE: C

2.05 LOCKSET FUNCTIONS: MORTISE AND CYLINDRICAL

A. D1 - PASSAGE LOCKSET - BOTH LEVERS ALWAYS RETRACT LATCHBOLT

B. D2 - OFFICE LOCKSET - INSIDE LEVER ALWAYS RETRACTS LATCHBOLT, KEY SIDE LOCKABLE WITH TURN OF BOTTOM

C. D3 - STORE/ROOM LOCKSET - INSIDE LEVER ALWAYS RETRACTS LATCHBOLT, KEY ACCESS ONLY ON KEY SIDE.

D. D4 - CLASSROOM LOCKSET - INSIDE LEVER ALWAYS RETRACTS LATCHBOLT, LATCHBOLT LOCKABLE ONLY WITH KEY.

E. D5 - PRIVACY LOCKSET - INSIDE LEVER RETRACTS LATCHBOLT, KEY SIDE LOCKED BY BUTTON ON INSIDE
1. CLOSING DOOR WITH LOCK BUTTON PRESSED WILL UNLOCK DOOR.

F. D6 - DUMMY PULL - APPLIED SINGLE OR DOUBLE FIXED LEVERS.

G. D7 - EXIT LOCKSET - INSIDE LEVER ALWAYS RETRACTS LATCHBOLT, BLANK PLATE ON EXTERIOR.

2.06 AUXILIARY LOCKSETS

A. SELECTED MANUFACTURER FOR DEADBOLTS AND CABINET LOCKS: BEST ACCESS 5L SERIES
1. LOCKSETS ARE PROVIDED AND INSTALLED UNDER THIS CONTRACT.
2. E96 - DEADBOLT KEY ONE SIDE THUMB TURN ONE SIDE
3. E99 - DEADBOLT WITH THUMB-TURN
4. E100 - CABINET DRAWER AND DOOR LOCK, COORDINATE WITH MILLWORK CONDITIONS TO PROVIDE:
a. RIM, MORTISE, LEFT-HAND, INVERTED, OR RIGHT-HAND CONDITION

2.07 COMBINATION LOCKSETS

A. SELECTED MANUFACTURER FOR CYLINDRICAL COMBINATION LOCKSETS: BEST ACCESS: 6Z SERIES
1. LOCKSETS ARE PROVIDED AND INSTALLED UNDER THIS CONTRACT.
2. LEVER STYLE: 14

B. SELECTED:
1. F3 - BORED INSTALLATION, PROVIDE FREE LEVER ON NON-KEYED SIDE

2.08 EXIT DEVICES

A. SELECTED MANUFACTURER OF EXIT DEVICES: VON DUPRIN.
1. 2I - "ALARM WILL SOUND" RIM EXIT DEVICE; GUARD-X #2670
a. NO ENTRANCE TRIM

2.09 CLOSERS

A. SELECTED MANUFACTURER OF CLOSERS: LCN 4040 SERIES
1. K1 - STANDARD DUTY NON-HANDED CLOSER WITH COVER
2. K2 - STANDARD DUTY NON-HANDED CLOSER WITH COVER AND HOLD-OPEN ARM

2.10 STOPS, HOLDERS AND HOLD OPEN DEVICES

A. SELECTED MANUFACTURER OF DOOR STOPS: ROCKWOOD
1. L1 - HIGH DOME FLOOR STOP #442
a. PROVIDE DOOR STOP RUBER IF REQUIRED DUE TO FINAL JOB CONDITIONS #443.
2. L2 - WALL MOUNTED CONVEX DOOR STOP #462.
3. L3 - HIGH PEDESTAL DOOR STOPS #470.
a. 3 INCH MINIMUM HEIGHT.
4. L4 - MANUAL DOOR HOLDER AND STOP, SURFACE MOUNTED: #490.

B. SELECTED MANUFACTURER DOOR HOLDER: ROCKWOOD
1. M1 - DOOR HOLDER / FLIP DOWN #489

C. SELECTED MANUFACTURER R OF DOOR HOLDERS AND HOLD-OPENS: GLYNN-JOHNSON.
1. M2 - SURFACE MOUNTED HEAVY DUTY STOP: 70S, STOP ONLY
2. M3 - SURFACE MOUNTED HEAVY DUTY STOP: 70H, STOP WITH HOLD OPEN.
3. M4 - SURFACE MOUNTED HEAVY DUTY STOP: 81S, STOP ONLY
4. M5 - SURFACE MOUNTED HEAVY DUTY STOP: 81H, STOP WITH HOLD OPEN.
5. SELECTED MANUFACTURER ELECTRO MAGNETIC HOLD OPEN: LCN
a. M8 - ELECTRO MAGNETIC HOLD OPEN - # 7800

2.11 GASKETING, THRESHOLDS AND SWEEPS

A. SELECTED MANUFACTURER OF GASKETS AND THRESHOLDS: NATIONAL GUARD PRODUCTS
1. N1 - HOLLOW METAL FRAME EXTERIOR WEATHERSTRIPPING #8750C
a. JAMB / HEAD SEAL, SURFACE MOUNTED BALLOON TYPE SEAL.
b. CHARCOAL ON ALL FRAMES.
2. N2 - RAIN DRIP STRIP #18A
a. HEAD OF FRAME MOUNTED
b. NATURAL ALUMINUM FINISH
3. N3 - FINNED VINYL DOOR SHOE #3192V
a. WITH DRIP STRIP AT SILL.
b. NATURAL ALUMINUM FINISH
4. N4 - DOOR SWEEP #600A
a. SURFACE APPLIED, BRUSH TYPE.
b. NATURAL ALUMINUM FINISH

B. SELECTED MANUFACTURER OF HOLLOW METAL FRAME SILENCERS: ROCKWOOD.
1. N09 - SILENCERS #868.
a. PROVIDE 1 SET ON ALL HOLLOW METAL FRAMES.

C. SELECTED MANUFACTURER OF ALUMINUM THRESHOLDS: NATIONAL GUARD PRODUCTS
1. P1 - SADDLE THRESHOLD #8426A - 4 INCHES WIDE.
a. WITH THERMAL BREAK.
2. P2 - SADDLE THRESHOLD #8426A - 5 INCHES WIDE.
a. WITH THERMAL BREAK.
3. P3 - SADDLE THRESHOLD #8426A - 8 INCHES WIDE.
a. WITH THERMAL BREAK.
4. P4 - ADA COMPLIANT BUMPER THRESHOLD #896A 5 INCHES WIDE.

2.12 PROTECTION PLATES AND ARCHITECTURAL DOOR TRIM

A. SELECTED MANUFACTURER OF KICK PLATES: ROCKWOOD.
1. R1 - 8 INCHES HIGH #K1050
a. MATCH FINISH OF OTHER HARDWARE ON DOOR.

B. SELECTED MANUFACTURER OF KICK PLATES: ROCKWOOD.
1. R2 - 08 INCHES HIGH #K1050
a. MATCH FINISH OF OTHER HARDWARE ON DOOR.

C. SELECTED MANUFACTURER OF LATCH PROTECTORS: ROCKWOOD.
1. K3 - LATCH PROTECTOR #839
a. MATCH FINISH OF OTHER HARDWARE ON DOOR.

D. SELECTED MANUFACTURER OF DUST PROOF KEEPERS: ROCKWOOD
1. R8 - KEEPER #570
a. MATCH FINISH OF OTHER HARDWARE ON DOOR.

E.

F. SELECTED MANUFACTURER OF DOOR VIEWERS: ROCKWOOD.
1. S1 - UL LISTED 190 DEGREE DOOR VIEWER #822

G. SELECTED MANUFACTURER OF COAT HOOKS: ROCKWOOD.
1. S2 - DOUBLE HOOK #196
a. NORMALLY INSTALLED TWO-PER-DOOR, 1 @48 INCHES, 1 @66 INCHES.

H.

2.13 SCHEDULE

A. HARDWARE SET R1 (CYPHER FUNCTION- ELECTRIC STRIKE)
1. F1 - CYPHER LOCKSET (1 EA)
2. A1 - HINGES (1.5 PAIR)
3. K1 - CLOSER (1 EA)
4. L1 - FLOOR STOP (1 EA)
5. R1 - ROCKPLATE (1 EA)
6. E9 - ELECTRIC STRIKE, EXISTING RELOCATED

B. HARDWARE SET R2 (CYPHER FUNCTION - ELECTRIC STRIKE ON GATE)
1. F1 - CYPHER LOCKSET (1 EA)
2. A1 - SPRING HINGES (1 PAIR)
3. E9 - ELECTRIC STRIKE, EXISTING RELOCATED

C. HARDWARE SET S1 (STORE/ROOM FUNCTION)
1. D3 - STORE/ROOM SET (1 EA.)
2. A1 - HINGES (1.5 PAIR)
3. L1 - FLOOR STOP (1 EA.)

D. HARDWARE SET S2 (STOREFROM FUNCTION)
1. D3 - STORE/ROOM SET (1 EA.)
a. REPLACE EXISTING LOCKSET WITH BEST LOCK OR CLYLINDER THAT WILL ACCEPT BEST CORE.
b. PROVIDE COVER PLATE FOR ABANDONED HARDWARE.

E. HARDWARE SET S3 (STORE/ROOM FUNCTION)
1. D3 - STORE/ROOM SET (1 EA.)
a. REPLACE EXISTING LOCKSET WITH BEST LOCK OR CLYLINDER THAT WILL ACCEPT BEST CORE.
b. PROVIDE COVER PLATE FOR ABANDONED HARDWARE.
c. VERIFY CONDITION OF WEATHERSTRIPPING, REPLACE IF REQUIRED.

F. HARDWARE SET V1 (PRIVACY FUNCTION)
1. D5 - PRIVACY SET (1 EA)
2. A1 - HINGES (2 PAIR)
3. K1 - CLOSER (1 EA)
4. M2 - DOOR CHECK (1 EA.)
5. R1 - ROCKPLATE (1 EA)
6. S2 - COAT HOOK @EA (1 @ 48" 1 @ 66")

G. HARDWARE SET Z1 (SLIDING DOOR)
1. C4 - SLIDING DOOR PULL (1 EA.)
a. INSTALL PULLS BACK TO BACK
b. REMAINDER OF HARDWARE BY METAL DOOR MANUFACTURER.

END OF SECTION

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REGISTERED ARCHITECT
HEIDI W. KIENAST
STATE OF TEXAS

REVISIONS

DATE:
01.28.13
PROJECT NO:
1220
ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

DOOR TYPES/SCHEDULE/ HARDWARE

700

J:\Dwg\2012\1220 - Greenbank Dallas North Tollway\Sheets\700 - Doors-Frames-Types-Details-Schedule\700 Door Types Schedule Specs.dwg Jan 28, 2013 02:01pm AKS-109-PC

SECTION 00500 - AGREEMENT

PART 1 GENERAL

FORM OF AGREEMENT

2.01 The Agreement to be executed is included in the Owners Procurement Documents under separate cover.

2.02 AIA Document A101, Owner-Contractor Agreement Form - Stipulated Sum 2007 Edition, forms the basis of Contract between the Owner and Contractor.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF AGREEMENT

SECTION 00700 - GENERAL CONDITIONS

FORM OF GENERAL CONDITIONS

1.01 AIA Document A201, General Conditions of the Contract for Construction, 2007 Edition, is the General Conditions between the Owner and Contractor.

END OF DOCUMENT

SECTION 00800 - SUPPLEMENTARY CONDITIONS

PART 1 GENERAL

1.01 SUMMARY

1.02 These Supplementary Conditions amend and supplement the General Conditions defined in Document 00700 and other provisions of the Contract Documents as indicated below. All provisions that are not so amended or supplemented remain in full force and effect.

1.03 The terms used in these Supplementary Conditions that are defined in the General Conditions have the meanings assigned to them in the General Conditions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

3.01 1.1 BASIC DEFINITIONS

A. Add the following new paragraphs:

1. 1.1.3.1 The term "Product" as used in these Contract Documents means: New material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components required for reuse.
2. 1.1.3.2 The term "Provide" means: To furnish or supply, plus install.
3. 1.1.3.3 The term "Furnish or Supply" means: To supply and deliver, unload, inspect for damage.
4. 1.1.3.4 The term "Install" means: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, and ready for use.

3.02 1.2 EXECUTION CORRELATION AND INTENT

A. Add the following new paragraphs:

1. 1.2.1.1 The inter-relation of the Project Manual, the Drawings and the schedules is as follows:The Project Manual determines the quality, nature and setting of the several materials; the Drawings establish the quantities, dimensions and details; and the schedules give the location.
2. 1.2.4 Should the drawings disagree in themselves, or with the Project Manual, or if proprietary information disagrees with performance requirements in either the Drawings or the Project Manual, the better quality or greater quantity of the Work or materials shall be estimated upon, and unless otherwise ordered by the Architect in writing, shall be performed or furnished. Should discrepancies or doubt occur, do not proceed with the Work without clarification from the Architect. Contractor shall request clarification in sufficient time to avoid delays and increases in the contract sum
3. 1.2.5 In any case of discrepancies the following order of precedence shall prevails:
   a. 1.2.5.1 Specification take precedence over Drawings, except that Notes on Drawings take precedence over Specifications
   b. 1.2.5.2 Figured dimensions take precedence over scaled dimensions
   c. 1.2.5.3 Large scale Drawings take precedence over smaller scale Drawings.
   d. 1.2.5.4 Specifications take precedence over the General Conditions.
   e. 1.2.5.5 Supplementary Conditions take precedence over the General Conditions.
4. 1.2.6 Scale and Dimensions: All discrepancies shall be referred to the Architect for final adjustment. Conflict between two or more dimensions applying to a common point or line shall be referred to the Architect for final adjustment. The Contractor will be held responsible when the absence of such procedure results in failure to coordinate component parts or to fit them properly into place.
5. 1.2.7 If Work is required in manner to make it impossible to produce first class Work, or should discrepancies appear among Contract Documents, request interpretations before proceeding with Work. If Contractor fails to make such request, no excuse will thereafter be entertained for failure to carry out the Work in satisfactory manner. Should conflicts occur in or between Drawings and Specifications, Contractor is deemed to have estimated on the most expensive way of doing the Work, unless he shall have asked for an obtained written decisions before submission of proposal as to which method will be required.

3.03 ARTICLE 3 CONTRACTOR

A. Add the following to paragraph 3.2.1:

1. "The Contractor shall verify all grades, levels, and dimensions indicated on the Drawings and shall report all inconsistencies to the Architect before commencing work."

B. Add the following subparagraphs:

1. 3.3.4 The Contractor shall place orders for specified materials and equipment promptly. No excuse or proposed substitution will be considered for materials and equipment due to unavailability unless proof is submitted that firm orders were placed well in advance of their need for incorporation into the project.
2. 3.5.2 The Contractor shall and does guarantee and/or warrant all work as called for in various divisions of the Specifications, Plans, and other related documents, whether or not such work is performed by Subcontractor, against defects in materials or workmanship, for a period of one (1) year from the date of Substantial Completion, or except as may be otherwise required for a longer period, or as required by the Specifications, from date of completion as evidenced by the date of Final Certificate of Payment Neither Final Certificate of Payment nor any provisions in the Contract Documents shall relieve the Contractor of responsibility for faulty materials or workmanship. Owner shall give notice of observed defects with reasonable promptness. Contractor, within a reasonable time after such notice, shall remedy same and pay for any damage to other work resulting therefrom. All questionable work arising under this Article shall be decided by the Architect
   a. 3.5.2.1 Nothing in the above intends or implies that this guarantee shall apply to work which has been abused or neglected by Owner, or his successor-in-interest, or tenants of the building.
3. 3.5.3 Contractor shall be responsible for guarantees from each subcontractor to the same extent as paragraph above.
4. 3.5.4 Contractor shall also submit written guarantees to cover all materials and equipment wherever such guarantee is required in the Specifications

3.04 ARTICLE 5.2 AWARD OF SUBCONTRACT AND OTHER CONTRACTS FOR PORTIONS OF THE WORK.

A. Add the following subparagraph:

1. Not later than ten (10) days from the Notice to Proceed, the Contractor shall provide a list showing the name of the manufacturer proposed to be used for each of the products identified in the technical sections of the Project Manual, and , where applicable, the name of the installing Subcontractor.
2. The Architect will promptly reply in writing to the Contractor stating whether the Owner or the Architect, after due investigation, has reasonable objection to any such proposal.If adequate data on any proposed manufacturer or installer is not available, the Architect may state that action will be deferred until the Contractor provides further data. Failure of the Owner or the Architect to reply promptly shall constitute notice of no reasonable objection. Failure to object to a manufacturer shall not constitute a waiver of any of the requirements of the Contract Documents, and all products furnished by the listed manufacturer must conform to such requirements

3.05 ARTICLE 11.1 CONTRACTOR'S LIABILITY INSURANCE

A. Delete subparagraph 11.1.2 in its entirety and substitute the following:

1. 11.1.2 The insurance required by subparagraph 11.1.1 shall be written for not less than the limits of liability indicated as follows (unless directed otherwise by the Owner), or as required by law, whichever is greater.
   a. 11.1.2.1 Workmen's Compensation as required by State Law and Employer's Liability Insurance in the Contractor's name with limits of liability of not less than: State: Statutory, Applicable Federal: Statutory, Employer's Liability: $500,000.00.
   b. 11.1.2.2 Comprehensive General Liability, Premises-Operations, Independent Contractor's Protective; Products and Completed Operations; Broad Form Property Damage, at limits set forth below, such policy to protect Contractor for his liability resulting from Contractor's Operations, Operations performed for Contractor by his Subcontractors, and Broad form Comprehensive Liability Endorsement Coverage including Contractual Liability, Product and Completed Operations. The policy is to provide coverage for the CU Hazards resulting from Explosion, Collapse and Underground Property Damage.
      1) 11.1.2.2.1 Bodily Injury: $ 3,000,000.00 Each Occurance, $3,000,000.00 Annual Aggerate.
      2) 11.1.2.2.2 Property Damage: $ 250,000.00 Occurance, $1,000,000.00 Annual Aggregate.
      3) 11.1.2.2.3 Products and Completed Operations to be maintained for two years after final payment; $500,000 Aggregate.
      4) 11.1.2.2.4 Property Damage Liability Insurance shall provide X, C or U coverage as applicable.
      5) 11.1.2.2.5 Broad Form Property Damage Coverage shall include Completed Operations.
      6) 11.1.2.2.6 Contractual Liability: Bodily Injury: $300,000 Each Occurrence, $ 1,000,000 Aggregate, Property Damage: $300,000 Each Occurrence, $ 1,000,000 Aggregate
      7) 11.1.2.2.7 Personal Injury with Employment Exclusion deleted: $300,000 Aggregate.
      8) 11.1.2.2.8 Comprehensive Automobile Liability:(including owned, non-owner, and hired vehicles), Bodily Injury: $1,000,000 Each Person, $1,000,000 Each Occurrence, Property Damage: $500,000 Each Occurrence.
   c. 11.1.2.3 All of the above coverage shall be supplemented by an Umbrella Useability Insurance Policy providing a combined single limit of $3,000,000.00.
   d. 11.1.2.4 Additional coverage for All Peril, in the amount of $500,000 shall be carried to cover investigation, documentations, modifications, and other Owner incurred costs should a claim be made for damages.
2. 11.1.3 The Contractor shall provide Builders Risk Insurance, include $1000.00 deductible.
3. 11.1.4 Furnish one copy of certificates herein required for each copy of Agreement; specifically set forth evidence of all coverage required herein. The form of the certificate shall be AIA Document G705, or Standard Accord Form. Furnish to the Owner copies of any endorsements that are subsequently issued amending coverage or limits.

END OF DOCUMENT

SECTION 01100 - SUMMARY

PART 1 GENERAL

1.01 PROJECT

A. Project Name: Green Bank Tollway Branch.

B. Owner's Name: Green Bank NA.

C. Architect's Name: ALEXANDER+KIENAST+SCHNITZ.

D. The Project consists of the renovations to a 3,254 SF existing branch bank lobby, located at 16711 Dallas Parkway, Addison, Texas 75001. Work to include construction, finishes, minor electrical device relocation. The project will not be LEED certified.

1.02 CONTRACT DESCRIPTION

A. Contract Type: A single prime contract based on a Stipulated Price as described in Document 00500 - Agreement.

1.03 OWNER OCCUPANCY

A. Green Bank NA intends to continue to occupy portions of the existing building during the entire construction period.

B. Cooperate with Green Bank NA to minimize conflict and to facilitate Green Bank NA's operations.

C. Schedule the Work to accommodate Green Bank NA occupancy.

1.04 CONTRACTOR USE OF SITE AND PREMISES

A. Construction Operations: Limited to areas noted on Drawings.

B. Arrange use of site and premises to allow:
   1. Green Bank NA occupancy.
   2. Work by Others.
   3. Work by Green Bank NA.
   4. Use of site and premises by the public.

C. Provide access to and from site as required by law and by Green Bank NA:
   1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   2. Do not obstruct roadways, sidewalks, or other public ways without permit.

D. Existing building spaces may not be used for storage.

E. Utility Outages and Shutdown:
   1. Limit disruption of utility services to hours the building is unoccupied.
   2. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Green Bank NA and authorities having jurisdiction.
   3. Prevent accidental disruption of utility services to other facilities.

1.05 WORK SEQUENCE

A. Construct Work in phases during the construction period:

B. Coordinate construction schedule and operations with Green Bank NA.

END OF SECTION

SECTION 01200 - PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedures for preparation and submittal of applications for progress payments.

B. Documentation of changes in Contract Price and Contract Time.

C. Correlation of Contractor submittals based on changes.

D. Procedures for preparation and submittal of application for final payment.

1.02 SCHEDULE OF VALUES

A. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to ALEXANDER+KIENAST+SCHNITZ for approval.

B. Forms filled out by hand will not be accepted.

C. Submit Schedule of Values in duplicate within 15 days after date of Owner-Contractor Agreement.

D. Format: Utilize the Table of Contents of this Project Manual. Identify each line item with number and title of the specification Section. Identify site mobilization.

E. Include in each line item, the amount of Allowances specified elsewhere in the Specifications.

F. Revise schedule to list approved Change Orders, with each Application For Payment.

1.03 APPLICATIONS FOR PROGRESS PAYMENTS

A. Payment Period: Submit at intervals stipulated in the Agreement.

B. Form to be used: AIA G702/G703.

C. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to ALEXANDER+KIENAST+SCHNITZ for approval.

D. Forms filled out by hand will not be accepted.

E. Execute certification by signature of authorized officer.

F. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.

G. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of Work.

H. Submit one original copy of each Application for Payment.

I. Include the following with the application:
   1. Transmittal letter as specified for Submittals in Section 01200 (01 30 00).
   2. Partial release of liens from major Subcontractors and vendors.
   3. Affidavits attesting to off-site stored products.

J. When ALEXANDER+KIENAST+SCHNITZ requires substantiating information, submit data justifying dollar amounts in question. Provide one copy of data with cover letter for each copy of submittal. Show application number and date, and line item by number and description.

1.04 MODIFICATION PROCEDURES

A. For minor changes not involving an adjustment to the Contract Price or Contract Time, ALEXANDER+KIENAST+SCHNITZ will issue instructions directly to Contractor.

B. For other required changes, ALEXANDER+KIENAST+SCHNITZ will issue a document signed by Green Bank NA instructing Contractor to proceed with the change, for subsequent inclusion in a Change Order.
   1. The document will describe the required changes and will designate method of determining any change in Contract Price or Contract Time.
   2. Promptly execute the change.

C. For changes for which advance pricing is desired, ALEXANDER+KIENAST+SCHNITZ will issue a document that includes a detailed description of a proposed change with supplementary or revised drawings and specifications, a change in Contract Time for executing the change with a stipulation of any overtime work required and the period of time during which the requested price will be considered valid. Contractor shall prepare and submit a fixed price quotation within 5 days.

D. Contractor may propose a change by submitting a request for change to ALEXANDER+KIENAST+SCHNITZ, describing the proposed change and its full effect on the Work, with a statement describing the reason for the change, and the effect on the Contract Price and Contract Time with full documentation and a statement describing the effect on Work by separate or other contractors. Document any requested substitutions in accordance with Section 01600 (01 60 00).

E. Computation of Change in Contract Amount: As specified in the Agreement and Conditions of the Contract:
   1. For change requested by ALEXANDER+KIENAST+SCHNITZ for work failing under a fixed price contract, the amount will be based on Contractor's price quotation.
   2. For change requested by Contractor, the amount will be based on the Contractor's request for a Change Order as approved by ALEXANDER+KIENAST+SCHNITZ.
   3. For change ordered by ALEXANDER+KIENAST+SCHNITZ without a quotation from Contractor, the amount will be determined by ALEXANDER+KIENAST+SCHNITZ based on the Contractor's substantiation of costs as specified for Time and Material work.

F. Substantiation of Costs: Provide full information required for evaluation.
   1. On request, provide following data:
      a. Quantities of products, labor, and equipment.
      b. Taxes, insurance, and bonds.
      c. Overhead and profit.
      d. Justification for any change in Contract Time.
      e. Credit for deletions from Contract, similarly documented.
   2. Support each claim for additional costs with additional information:
      a. Origin and date of claim.
      b. Dates and times work was performed, and by whom.
      c. Time records and wage rates paid.
      d. Invoices and receipts for products, equipment, and subcontracts, similarly documented.
   3. For Time and Material work, submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract.

G. Execution of Change Orders: ALEXANDER+KIENAST+SCHNITZ will issue Change Orders for signatures of parties as provided in the Conditions of the Contract.

H. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item and adjust the Contract Price.

I. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.

J. Promptly enter changes in Project Record Documents.

1.05 APPLICATION FOR FINAL PAYMENT

A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Price, previous payments, and sum remaining due.

B. Application for Final Payment will not be considered until the following have been accomplished:
   1. All closeout procedures specified in Section 01700 (01 70 00).

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01210 - ALLOWANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Cash allowances.

B. Inspecting and testing allowances.

1.02 RELATED REQUIREMENTS

A. Section 01200 (01 20 00) - Price and Payment Procedures: Additional payment and modification procedures.

1.03 CASH ALLOWANCES

A. Costs Included in Cash Allowances: Cost of product to Contractor or subcontractor, less applicable trade discounts.

B. Costs Included in Cash Allowances: Product delivery to site and handling at the site, including unloading, uncrating, and storage; protection of products from elements and from damage; and labor for installation and finishing..

C. ALEXANDER+KIENAST+SCHNITZ Responsibilities:
   1. Consult with Contractor for consideration and selection of products, suppliers, and installers.
   2. Select products in consultation with Green Bank NA and transmit decision to Contractor.
   3. Prepare Change Order.

D. Contractor Responsibilities:
   1. Obtain proposals from suppliers and installers and offer recommendations.
   2. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
   3. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.

E. Differences in costs will only be adjusted by Change Order.

1.04 INSPECTING AND TESTING ALLOWANCES

A. Costs Included in Inspecting and Testing Allowances: Cost of engaging an inspecting or testing agency; execution of inspecting and tests; and reporting results.

B. Costs Not Included in the Inspecting and Testing Allowances:
   1. Costs of incidental labor and facilities required to assist inspecting or testing agency.
   2. Costs of testing services used by Contractor separate from Contract Document requirements.
   3. Costs of retesting upon failure of previous tests as determined by ALEXANDER+KIENAST+SCHNITZ.

C. Payment Procedures:
   1. Submit one copy of the inspecting or testing firm's invoice with next application for payment.

D. Differences in costs will only be adjusted by Change Order.

1.05 ALLOWANCES SCHEDULE

A. Security Rough-in Allowance: Include the sum of $2,500 to provide additional rough-in for security and bank equipment in addition to the items shown on the drawings.

B. HVAC Testing, Adjusting, and Balancing Allowance: Include the sum of $5,000 for testing, adjusting, and balancing mechanical systems by independent test & balance company during the Commissioning activities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preconstruction meeting.

B. Progress meetings.

C. Construction progress schedule.

D. Submittals for review, information, and project closeout.

E. Number of copies of submittals.

F. Submittal procedures.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

A. ALEXANDER+KIENAST+SCHNITZ will schedule a meeting after Notice of Award.

B. Attendance Required:
   1. Green Bank NA
   2. ALEXANDER+KIENAST+SCHNITZ.
   3. Contractor.

C. Agenda:
   1. Execution of Green Bank NA-Contractor Agreement.
   2. Submission of executed bonds and insurance certificates.
   3. Distribution of Contract Documents.
   4. Submission of list of Subcontractors, schedule of values, and progress schedule.
   5. Designation of personnel representing the parties to Contract, and ALEXANDER+KIENAST+SCHNITZ.
   6. Designation of personnel representing the parties to Contract, and ALEXANDER+KIENAST+SCHNITZ.
   7. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
   8. Scheduling.

D. Record minutes and distribute copies within two days after meeting to participants, with two copies to ALEXANDER+KIENAST+SCHNITZ, Green Bank NA, participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the Work at maximum bi weekly intervals.

B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

C. Attendance Required: Job superintendent, major Subcontractors and suppliers, Green Bank NA, ALEXANDER+KIENAST+SCHNITZ, as appropriate to agenda topics for each meeting.

D. Agenda:
   1. Review minutes of previous meetings.
   2. Review of Work progress.
   3. Field observations, problems, and decisions.
   4. Identification of problems that impede, or will impede, planned progress.
   5. Review of submittals schedule and status of submittals.
   6. Review of off-site fabrication and delivery schedules.
   7. Maintenance of progress schedule.
   8. Corrective measures to regain projected schedules.
   9. Planned progress during succeeding work period.
   10. Coordination of projected progress.
   11. Maintenance of quality and work standards.
   12. Effect of proposed changes on progress schedule and coordination.
   13. Other business relating to Work.

E. Record minutes and distribute copies within two days after meeting to participants, with two copies to ALEXANDER+KIENAST+SCHNITZ, Green Bank NA, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

A. Within 7 calendar days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of Work, with a general outline for remainder of Work.

B. Within 7 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
   1. Include written certification that major contractors have reviewed and accepted proposed schedule.

C. Within 7 days after joint review, submit complete schedule.

D. Submit updated schedule with each Application for Payment.

3.04 PROGRESS PHOTOGRAPHS

A. Submit new photographs each before noon on each Thursday.

B. Photography Type: Digital, electronic files.

C. Provide photographs of site and construction throughout progress of Work produced by an experienced photographer, acceptable to ALEXANDER+KIENAST+SCHNITZ.

D. Views:
   1. Provide non-aerial photographs from four cardinal views at each specified time, until Date of Substantial Completion.
   2. Consult with ALEXANDER+KIENAST+SCHNITZ for instructions on views required.
   3. Provide factual presentation.
   4. Provide correct exposure and focus, high resolution and sharpness, maximum depth of field, and minimum distortion.

E. Digital Photographs: 24 bit color, minimum resolution of 1024 by 768, in JPG format; provide files unaltered by photo editing software.
   1. Delivery Medium: Via email.
   2. File Naming: Include project identification, date and time of view, and view identification.
   3. PDF File: Assemble all photos into printable pages in PDF format, with 2 to 3 photos per page, each photo labeled with file name; one PDF file per submittal.

3.05 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
   1. Product data.
   2. Shop drawings.
   3. Samples for selection.
   4. Samples for verification.

B. Submit to ALEXANDER+KIENAST+SCHNITZ for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.

C. Samples will be reviewed only for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01780 (01 78 00) - CLOSEOUT SUBMITTALS.

3.06 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
   1. Design data.
   2. Certificates.
   3. Test reports.
   4. Inspection reports.
   5. Manufacturer's instructions.
   6. Manufacturer's field reports.
   7. Other types indicated.

B. Submit for ALEXANDER+KIENAST+SCHNITZ's knowledge as contract administrator or for Green Bank NA. No action will be taken.

3.07 SUBMITTALS FOR PROJECT CLOSEOUT

A. When the following are specified in individual sections, submit them at project closeout:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

B. Submit for Green Bank NA's benefit during and after project completion.

3.08 NUMBER OF COPIES OF SUBMITTALS

A. Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Samples of final products:
   1. will not receive samples at the project site, submit all samples to the Architect's office.
   2. Submit three (3) samples of each material, finish, color, and style to the Architect's Office for review.

C. Extra Copies at Project Closeout: See Section 01780 (01 78 00).
   1. Documents for Project Closeout: Make one reproduction of submittal originally reviewed. Submit one extra of submittals for information.
   2. Samples: Submit the number specified in individual specification sections, or at least three (3) copies; one of which will be retained by ALEXANDER+KIENAST+SCHNITZ.

3.09 SUBMITTAL PROCEDURES

A. Transmit each submittal with approved form.

B. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.

C. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.

D. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
   1. Submittals not reviewed by Contractor or identified correctly will not be recognized or processed.

E. Deliver submittals to ALEXANDER+KIENAST+SCHNITZ at business address.

F. Schedule submittals to expedite the Project, and coordinate submission of related items.

G. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

H. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.

I. Provide space for Contractor and ALEXANDER+KIENAST+SCHNITZ review stamps.

J. When revised for resubmission, identify all changes made since previous submission.

K. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

L. Submittals not requested will not be recognized or processed.

M. Unreadable or extremely small sized submittals will not be recognized or processed.

N. Fax submittals will not be recognized or processed.

END OF SECTION

SECTION 01400 - QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. References and standards.

B. Mock-ups.

C. Control of installation.

D. Testing and inspection services.

E. Manufacturers' field services.

1.02 REFERENCE STANDARDS

A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008.

B. ASTM C1077 - Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation; 2011c.

C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2012.

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REGISTERED ARCHITECT
JACK N. KIENAST
STATE OF TEXAS
No. 6363
10/15/13

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

All drawings & written materials appearing herein constitute original unpublished work, & may not be duplicated, used or disclosed without written consent of ALEXANDER + KIENAST + SCHNITZ, LLC.

GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction; 2012a.

E. ASTM E329 - Standard Specification for Agencies Engaged Construction Inspection and/or Testing; 2011.

F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2009.

1.03 SUBMITTALS

A. Design Data: Submit for ALEXANDER+KIENAST+SCHNITZ's knowledge as contract administrator for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents, or for Green Bank NA's information.

B. Test Reports: After each test/inspection, promptly submit two copies of report to ALEXANDER+KIENAST+SCHNITZ and to Contractor.
1. Include:
   a. Date issued.
   b. Project title and number.
   c. Name of inspector.
   d. Date and time of sampling or inspection.
   e. Identification of product and specifications section.
   f. Location in the Project.
   g. Type of test/inspection.
   h. Date of test/inspection.
   i. Results of test/inspection.
   j. Conformance with Contract Documents.
   k. When requested by ALEXANDER+KIENAST+SCHNITZ, provide interpretation of results.

C. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to ALEXANDER+KIENAST+SCHNITZ, in quantities specified for Product Data.
1. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
2. Certificates may be recent or previous test results on material or product, but must be acceptable to ALEXANDER+KIENAST+SCHNITZ.

D. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Green Bank NA's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

E. Manufacturer's Field Reports: Submit reports for ALEXANDER+KIENAST+SCHNITZ's benefit as contract administrator or for Green Bank NA.
1. Submit for information for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents.

1.04 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.

C. Obtain copies of standards where required by product specification sections.

D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.

E. Should specified reference standards conflict with Contract Documents, request clarification from ALEXANDER+KIENAST+SCHNITZ before proceeding.

F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of ALEXANDER+KIENAST+SCHNITZ shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.05 TESTING AND INSPECTION AGENCIES

A. Green Bank NA will employ and pay for services of an independent testing agency to perform other specified testing and inspection.

B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from ALEXANDER+KIENAST+SCHNITZ before proceeding.

D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have Work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 MOCK-UPS

A. Tests will be performed under provisions identified in this section and identified in the respective product specification sections.

B. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.

C. Accepted mock-ups shall be a comparison standard for the remaining Work.

D. Where mock-up has been accepted by ALEXANDER+KIENAST+SCHNITZ and is specified in product specification sections to be removed, remove mock-up and clear area when directed to do so.

3.03 TESTING AND INSPECTION

A. See individual specification sections for testing required.

B. Testing Agency Duties:
1. Provide qualified personnel at site. Cooperate with ALEXANDER+KIENAST+SCHNITZ and Contractor in performance of services.
2. Perform specified sampling and testing of products in accordance with specified standards.
3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
4. Promptly notify ALEXANDER+KIENAST+SCHNITZ and Contractor of observed irregularities or non-conformance of Work or products.
5. Perform additional tests and inspections required by ALEXANDER+KIENAST+SCHNITZ.
6. Submit reports of all tests/inspections specified.

C. Limits on Testing/Inspection Agency Authority:
1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency may not approve or accept any portion of the Work.
3. Agency may not assume any duties of Contractor.
4. Agency has no authority to stop the Work.

D. Contractor Responsibilities:
1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
3. Provide incidental labor and facilities:
   a. To provide access to Work to be tested/inspected.
   b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
   c. To facilitate tests/inspections.
   d. To provide storage and curing of test samples.
4. Notify ALEXANDER+KIENAST+SCHNITZ and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
6. Arrange with Green Bank NA's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

E. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by ALEXANDER+KIENAST+SCHNITZ.

F. Re-testing required because of non-conformance to specified requirements shall be paid for by Contractor.

3.04 MANUFACTURERS' FIELD SERVICES

A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment as applicable, and to initiate instructions when necessary.

B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.05 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not conforming to specified requirements.

B. If, in the opinion of ALEXANDER+KIENAST+SCHNITZ, it is not practical to remove and replace the Work, ALEXANDER+KIENAST+SCHNITZ will direct an appropriate remedy or adjust payment.

END OF SECTION

SECTION 01600 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General product requirements.

B. Transportation, handling, storage and protection.

C. Product option requirements.

D. Substitution limitations and procedures.

E. Procedures for Green Bank NA-supplied products.

F. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 REFERENCE STANDARDS

A. 16 CFR 260 - Guides for the Use of Environmental Marketing Claims; Federal Trade Commission; current edition.

B. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 SUBMITTALS

A. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
1. Submit within 10 days after date of Agreement.
2. For products specified only by reference standards, list applicable reference standards.

B. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

C. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

D. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

2.01 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.02 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 SUBSTITUTION PROCEDURES

A. Instructions to Bidders specify time restrictions for submitting requests for substitutions during the bidding period. Comply with requirements specified in this section.

B. ALEXANDER+KIENAST+SCHNITZ will consider requests for substitutions only within 15 days after date of Agreement.

C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.

D. A request for substitution constitutes a representation that the submitter:
1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
2. Will provide the same warranty for the substitution as for the specified product.
3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Green Bank NA.
4. Waives claims for additional costs or time extension that may subsequently become apparent.
5. Will reimburse Green Bank NA and ALEXANDER+KIENAST+SCHNITZ for review or redesign services associated with re-approval by authorities.

E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

F. Substitution Submittal Procedure:
1. Submit three copies of request for substitution for consideration. Limit each request to one proposed substitution.
2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
3. The ALEXANDER+KIENAST+SCHNITZ will notify Contractor in writing of decision to accept or reject request.

3.02 OWNER-SUPPLIED PRODUCTS

A. Green Bank NA's Responsibilities:
1. Arrange for and deliver Green Bank NA reviewed shop drawings, product data, and samples, to Contractor.
2. Arrange and pay for product delivery to site.
3. Submit claims for transportation damage and replace damaged, defective, or deficient items.
4. Arrange for manufacturers' warranties, inspections, and service.

B. Contractor's Responsibilities:
1. Review Green Bank NA reviewed shop drawings, product data, and samples.
2. Receive and unload products at site; inspect for completeness or damage jointly with Green Bank NA.
3. Handle, store, install and finish products.
4. Repair or replace items damaged after receipt.

3.03 TRANSPORTATION AND HANDLING

A. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

B. Transport and handle products in accordance with manufacturer's instructions.

C. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

D. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

E. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

F. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.04 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.

E. For exterior storage of fabricated products, place on sloped supports above ground.

F. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.

G. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

H. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

I. Prevent contact with material that may cause corrosion, discoloration, or staining.

J. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

K. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

SECTION 01616 - VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. VOC restrictions for product categories listed below under "DEFINITIONS."

B. All products of each category that are installed in the project must comply; Green Bank NA's project goals do not allow for partial compliance.

1.02 DEFINITIONS

A. VOC-Restricted Products: All products of each of the following categories when installed or applied on-site in the building interior:
1. Adhesives, sealants, and sealer coatings.
2. Carpet tile.
3. Resilient floor coverings.
4. Paints and coatings.
5. Insulation.
6. Gypsum board.
7. Acoustical ceilings and panels.
8. Cabinet work.
9. Wall coverings.
10. Composite wood and agrifiber products used either alone or as part of another product.
11. Other products when specifically stated in the specifications.

B. Interior of Building: Anywhere inside the exterior weather barrier.

C. Adhesives: All gunnable, trowelable, liquid-applied, and aerosol adhesives, whether specified or not; including flooring adhesives, resilient base adhesives, and pipe jointing adhesives.

D. Sealants: All gunnable, trowelable, and liquid-applied joint sealants and sealant primers, whether specified or not; including firestopping sealants and duct joint sealers.

1.03 REFERENCE STANDARDS

A. CAL (CHPS LEM) - Low-Emitting Materials Product List; California Collaborative for High Performance Schools (CHPS); current edition at www.chps.net/.

B. CAL (VOC) - Standard Practice for the Testing of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers (including Addendum 2004-01); State of California Department of Health Services; 2004.

C. CRI (GLCC) - Green Label Testing Program - Approved Product Categories for Carpet Cushion; Carpet and Rug Institute; Current Edition.

D. CRI (GLP) - Green Label Plus Carpet Testing Program - Approved Products; Carpet and Rug Institute; Current Edition.

E. GEI (SCH) - GREENGUARD "Children and Schools" Certified Products; GREENGUARD Environmental Institute; current listings at www.greenguard.org.

F. GreenSeal GC-03 - Anti-Corrosive Paints; Green Seal, Inc.; 2007

G. GreenSeal GS-11 - Paints; Green Seal, Inc.; 1993.

H. GreenSeal GS-36 - Commercial Adhesives; Green Seal, Inc.; 2011.

I. SCAQMD 1113 - South Coast Air Quality Management District Rule No.1113, current edition; www.aqmd.gov.

J. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; www.aqmd.gov.

K. SCS (CPD) - SCS Certified Products: Scientific Certification Systems; current listings at www.scscertified.com.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Evidence of Compliance: Submit for each different product in each applicable category.

C. Product Data: For each VOC-restricted product used in the project, submit product data showing compliance, except when another type of evidence of compliance is required.

D. Installer Certifications for Accessory Materials: Require each installer of any type of product (not just the products for which VOC restrictions are specified) to certify that either 1) no adhesives, joint sealants, paints, coatings, or composite wood or agrifiber products have been used in the installation of his products, or 2) that such products used comply with these requirements.

1.05 QUALITY ASSURANCE

A. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

PART 2 PRODUCTS

2.01 MATERIALS

A. Adhesives and Joint Sealants: Provide only products having volatile organic compound (VOC) content not greater than required by South Coast Air Quality Management District Rule No.1168.
1. Evidence of Compliance: Acceptable types of evidence are:
   a. Report of laboratory testing performed in accordance with requirements.
   b. Published product data showing compliance with requirements.

B. Aerosol Adhesives: Provide only products having volatile organic compound (VOC) content not greater than required by GreenSeal GS-36.
1. Evidence of Compliance: Acceptable types of evidence are:
   a. Current GreenSeal Certification.

C. Paints and Coatings:
1. Provide coatings that comply with the most stringent requirements specified in the following:
   a. 40 CFR 59, Subpart D—National Volatile Organic Compound Emission Standards for Architectural Coatings.
   b. Architectural coatings VOC limits of state in which the project is located.
2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
3. Evidence of Compliance: Acceptable types of evidence are:
   a. Report of laboratory testing performed in accordance with requirements.
   b. Published product data showing compliance with requirements.
   c. Certification by manufacturer that product complies with requirements.

D. Carpet and Adhesive: Provide products having VOC content not greater than that required for CRI Green Label Plus certification.
1. Evidence of Compliance: Acceptable types of evidence are:
   a. Current Green Label Plus Certification.
   b. Report of laboratory testing performed in accordance with requirements.

E. Carpet, Carpet Cushion, and Adhesive: Provide products having VOC content as specified in Section 09680 (09 68 00).

F. Carpet Tile and Adhesive: Provide products having VOC content not greater than that required for CRI Green Label Plus certification.
1. Evidence of Compliance: Acceptable types of evidence are:
   a. Current Green Label Plus Certification.
   b. Report of laboratory testing performed in accordance with requirements.

G. Carpet Tile and Adhesive: Provide products having VOC content as specified in Section 09685 (09 68 13).

H. Composite Wood and Agrifiber Products and Adhesives Used for Laminating Them: Provide products having no added urea-formaldehyde resins.
1. Evidence of Compliance: Acceptable types of evidence are:
   a. Published product data showing compliance with requirements.

I. Other Product Categories: Comply with limitations specified elsewhere.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Green Bank NA reserves the right to reject non-compliant products, whether installed or not, and require their removal and replacement with compliant products at no extra cost to Green Bank NA.

B. All additional costs to restore indoor air quality due to installation of non-compliant products will be borne by Contractor.

END OF SECTION

SECTION 01700 - EXECUTION REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.

B. Pre-installation meetings.

C. Cutting and patching.

D. Surveying for laying out the work.

E. Cleaning and protection.

F. Starting of systems and equipment.

G. Demonstration and instruction of Green Bank NA personnel.

H. Closeout procedures, except payment procedures.

I. General requirements for maintenance service.

1.02 REFERENCE STANDARDS

A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2009.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
1. On request, submit documentation verifying accuracy of survey work.
2. Submit a copy of site drawing signed by the Land Surveyor, that the elevations and locations of the work are in conformance with Contract Documents.
3. Submit surveys and survey logs for the project record.

C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
1. Structural integrity of any element of Project.
2. Integrity of weather exposed or moisture resistant element.
3. Efficiency, maintenance, or safety of any operational element.
4. Visual qualities of sight exposed elements.
5. Work of Green Bank NA or separate Contractor.

1.04 QUALIFICATIONS

A. For survey work, employ a land surveyor registered in Addisonn, Texas and acceptable to ALEXANDER+KIENAST+SCHNITZ. Submit evidence of Surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate.

B. For field engineering, employ a professional engineer of the discipline required for specific service on Project, licensed in Addisonn, Texas.

1.05 PROJECT CONDITIONS

A. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.

B. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.

C. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

D. Erosion and Sediment Control: Plan and execute work by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
1. Minimize amount of bare soil exposed at one time.
2. Provide temporary measures such as berms, dikes, and drains, to prevent water flow.
3. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.
4. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

E. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.

F. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

1.06 COORDINATION

A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Notify affected utility companies and comply with their requirements.

C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate completion and clean-up of work of separate sections.

G. After Green Bank NA occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Green Bank NA's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01600 (01 60 00).

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 PREINSTALLATION MEETINGS

A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.

B. Require attendance of parties directly affecting, or affected by, work of the specific section.

C. Notify ALEXANDER+KIENAST+SCHNITZ four days in advance of

ALEXANDER KIENAST SCHNITZ
ARCHITECTURE & INTERIOR DESIGN
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REGISTERED ARCHITECT
JACK W. KIENAST
18813
STATE OF TEXAS
SEALED

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

meeting date.

D. Prepare agenda and preside at meeting:
   1. Review conditions of examination, preparation and installation procedures.
   2. Review coordination with related work.

E. Record minutes and distribute copies within two days after meeting to participants, with two copies to ALEXANDER+KIENAST+SCHNITZ, Green Bank NA, participants, and those affected by decisions made.

3.04 LAYING OUT THE WORK

A. Verify locations of survey control points prior to starting work.

B. Promptly notify ALEXANDER+KIENAST+SCHNITZ of any discrepancies discovered.

C. Green Bank NA will locate and protect survey control and reference points.

D. Control datum for survey is that established by Green Bank NA provided survey.

E. Protect survey control points prior to starting site work; preserve permanent reference points during construction.

F. Promptly report to ALEXANDER+KIENAST+SCHNITZ the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

G. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to ALEXANDER+KIENAST+SCHNITZ.

H. Utilize recognized engineering survey practices.

I. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
   1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
   2. Grid or axis for structures.
   3. Building foundation, column locations, ground floor elevations.

J. Periodically verify layouts by same means.

K. Maintain a complete and accurate log of control and survey work as it progresses.

3.05 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.06 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. Perform whatever cutting and patching is necessary to:
   1. Complete the work.
   2. Fit products together to integrate with other work.
   3. Provide openings for penetration of mechanical, electrical, and other services.
   4. Match work that has been cut to adjacent work.
   5. Repair areas adjacent to cuts to required condition.
   6. Repair new work damaged by subsequent work.
   7. Remove samples of installed work for testing when requested.
   8. Remove and replace defective and non-conforming work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

F. Restore work with new products in accordance with requirements of Contract Documents.

G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07840 (07 84 00), to full thickness of the penetrated element.

I. Patching:
   1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
   2. Match color, texture, and appearance.
   3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.07 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.08 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

G. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

3.09 SYSTEM STARTUP

A. Coordinate with requirements of Section 01800 (01 91 13) - Commissioning.

B. Coordinate schedule for start-up of various equipment and systems.

C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.

D. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

E. Verify that wiring and support components for equipment are complete and tested.

F. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.

G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.

H. Submit a written report that equipment or system has been properly installed and is functioning correctly.

3.10 DEMONSTRATION AND INSTRUCTION

A. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time, at equipment location.

B. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

C. Provide a qualified person who is knowledgeable about the Project to perform demonstration and instruction of owner personnel.

D. Utilize operation and maintenance manuals as basis for instruction. Review contents of manual with Green Bank NA's personnel in detail to explain all aspects of operation and maintenance.

E. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.

3.11 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.12 FINAL CLEANING

A. Execute final cleaning prior to final project assessment.

B. Use cleaning materials that are nonhazardous.

C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.

E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

F. Clean filters of operating equipment.

G. Clean debris from roofs, gutters, downspouts, and drainage systems.

H. Clean site; sweep paved areas, rake clean landscaped surfaces.

I. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.13 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.

B. Notify ALEXANDER+KIENAST+SCHNITZ when work is considered ready for Substantial Completion.

C. Submit written certification that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for ALEXANDER+KIENAST+SCHNITZ's review.

D. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Green Bank NA-occupied areas.

E. Complete items of work determined by ALEXANDER+KIENAST+SCHNITZ's final inspection.

3.14 MAINTENANCE

A. Provide service and maintenance of components indicated in specification sections.

B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the length of the specified warranty, whichever is longer.

C. Conduct a tour of the facility during the eleventh month following the date of Substantial Completion with the Green Bank NA Property Manager..
   1. Prepare a list of all items requiring adjustment and warranty repair or replacement at no cost to Green Bank NA.

D. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.

E. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.

F. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Green Bank NA.

END OF SECTION

SECTION 01732 - WASTE MANAGEMENT

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

A. Green Bank NA requires that this project generate the least amount of trash and waste possible.

B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.

C. Minimize trash/waste disposal in landfills: reuse, salvage, or recycle as much waste as economically feasible.

D. Required Recycling, Salvage, and Reuse: The following may not be disposed of in landfills or by incineration:
   1. Aluminum and plastic beverage containers.
   2. Corrugated cardboard.
   3. Wood pallets.
   4. Clean dimensional wood: May be used as blocking or furring.
   5. Land clearing debris, including brush, branches, logs, and stumps: See Section 02230 for use options.
   6. Concrete: May be crushed and used as riprap, aggregate, sub-base material, or fill.
   7. Asphalt paving: May be recycled into paving for project.
   8. Metals, including packaging banding, metal studs, sheet metal, structural steel, piping, reinforcing bars, door frames, and other items made of steel, iron, galvanized steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze.

E. Contractor shall submit periodic Waste Disposal Reports; all landfill disposal, incineration, recycling, salvage, and reuse must be reported regardless of to whom the cost or savings accrues; use the same units of measure on all reports.

F. Methods of trash/waste disposal that are not acceptable are:
   1. Burning on the project site.
   2. Burying on the project site.
   3. Dumping or burying on other property, public or private.
   4. Other illegal dumping or burying.

G. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

1.02 RELATED REQUIREMENTS

A. Section 01300 (01 30 00) - Administrative Requirements: Additional requirements for project meetings, reports, submittal procedures, and project documentation.

B. Section 01500 (01 50 00) - Temporary Facilities and Controls: Additional requirements related to trash/waste collection and removal facilities and services.

C. Section 01600 (01 60 00) - Product Requirements: Waste prevention requirements related to delivery, storage, and handling.

D. Section 01700 (01 70 00) - Execution Requirements: Trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

E. Section 02230 (31 10 00) - Site Clearing: Handling and disposal of land clearing debris.

1.03 DEFINITIONS

A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.

B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.

C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.

D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.

E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.

F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.

G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.

H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.

I. Return: To give back reusable items or unused products to vendors for credit.

J. Reuse: To reuse a construction waste material in some manner on the project site.

K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.

L. Sediment: Soil and other debris that has been eroded and transported by storm or wall production run-off water.

M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.

N. Toxic: Poisonous to humans either immediately or after a long period of exposure.

O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.

P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Waste Disposal Reports: Submit at specified intervals, with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report:
   1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment.
   2. Submit Report on a form acceptable to Green Bank NA.
   3. Landfill Disposal: Include the following information:
      a. Identification of material.
      b. Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project disposed of in landfills.
      c. State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost.
      d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
   4. Incinerator Disposal: Include the following information:
      a. Identification of material.
      b. Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project delivered to incinerators.
      c. State the identity of incinerators, total amount of fees paid to incinerator, and total disposal cost.
      d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
   5. Recycled and Salvaged Materials: Include the following information for each:
      a. Identification of material, including those retrieved by installer for use on other projects.
      b. Amount, in tons or cubic yards (cubic meters), date removed from the project site, and receiving party.
      c. Transportation cost, amount paid or received for the material, and the net total cost or savings of salvage or recycling each material.
      d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
      e. Certification by receiving party that materials will not be disposed of in landfills or by incineration.
   6. Material Reused on Project: Include the following information for each:
      a. Identification of material and how it was used in the project.
      b. Amount, in tons or cubic yards (cubic meters).
      c. Include weight tickets as evidence of quantity.
   7. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

PART 2 PRODUCTS

2.01 PRODUCT SUBSTITUTIONS

A. See Section 01600 (01 60 00) - Product Requirements for substitution submission procedures.

B. For each proposed product substitution, submit the following information in addition to requirements specified in Section 01600 (01 60 00):
   1. Relative amount of waste produced, compared to specified product.
   2. Cost savings on waste disposal, compared to specified product, to be deducted from the Contract Price.
   3. Proposed disposal method for waste product.
   4. Markets for recycled waste product.

PART 3 EXECUTION

3.01 WASTE MANAGEMENT PROCEDURES

A. See Section 01300 (01 30 00) for additional requirements for project meetings, reports, submittal procedures, and project documentation.

B. See Section 01500 (01 50 00) for additional requirements related to trash/waste collection and removal facilities and services.

C. See Section 01600 (01 60 00) for waste prevention requirements related to delivery, storage, and handling.

D. See Section 01700 (01 70 00) for trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

3.02 WASTE MANAGEMENT PLAN IMPLEMENTATION

A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.

B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, Green Bank NA, and ALEXANDER+KIENAST+SCHNITZ.

C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.

D. Meetings: Discuss trash/waste management goals and issues at project meetings.
   1. Pre-bid meeting.
   2. Pre-construction meeting.
   3. Regular job-site meetings.

E. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
   1. As a minimum, provide:
      a. Separate area for storage of materials to be reused on-site, such as wood cut-offs for blocking.
      b. Separate dumpsters for each category of recyclable.
      c. Recycling bins at worker lunch area.
   2. Provide containers as required.
   3. Provide temporary enclosures around piles of separated materials to be recycled or salvaged.
   4. Provide materials for barriers and enclosures that are nonhazardous, recyclable, or reusable to the maximum extent possible; reuse project construction waste materials if possible.
   5. Locate enclosures out of the way of construction traffic.
   6. Provide adequate space for pick-up and delivery and convenience to subcontractors.
   7. If an enclosed area is not provided, clearly lay out and label a specific area on-site.
   8. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.

F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.

G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.

H. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.

I. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.

END OF SECTION

SECTION 01780 - CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 RELATED REQUIREMENTS

A. Section 01300 (01 30 00) - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.

B. Section 01700 (01 70 00) - Execution Requirements: Contract closeout procedures.

C. Individual Product Sections: Specific requirements for operation and maintenance data.

D. Individual Product Sections: Warranties required for specific products or Work.

1.02 SUBMITTALS

A. Project Record Documents: Submit documents to ALEXANDER+KIENAST+SCHNITZ with claim for final Application for Payment.
   1. Final Application for Payment will not be reviewed until Closeout Submittial Documents are recieved.

B. Submit one (1) hardcopy set and three (3) electronic copies of revised final documents in final form within 10 days after final inspection.

C. Operation and Maintenance Data:
   1. For equipment, or component parts of equipment put into service during construction and operated by Green Bank NA, submit completed documents within ten days after acceptance.
   2. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with ALEXANDER+KIENAST+SCHNITZ comments. Revise content of all document sets as required prior to final submission.

D. Warranties and Bonds:
   1. For equipment or component parts of equipment put into service during construction with Green Bank NA's permission, submit documents within 10 days after acceptance.
   2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
   3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change Orders and other modifications to the Contract.
   5. Reviewed shop drawings, product data, and samples.
   6. Manufacturer's instruction for assembly, installation, and adjusting.

B. Ensure entries are complete and accurate, enabling future reference by Green Bank NA.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
   1. Product substitutions or alternates utilized.
   2. Changes made by Addenda and modifications.

F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
   1. Measured depths of foundations in relation to finish first floor datum.
   2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
   3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
   4. Field changes of dimension and detail.
   5. Details not on original Contract drawings.

3.02 OPERATION AND MAINTENANCE DATA

A. For Each Product or System: List names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish.
   1. Product data, with catalog number, size, composition, and color and texture designations.

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

C. Additional information as specified in individual product specification sections.

3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:
   1. Description of unit or system, and component parts.
   2. Identify function, normal operating characteristics, and limiting conditions.
   3. Include performance curves, with engineering data and tests.
   4. Complete nomenclature and model number of replaceable parts.

B. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.

C. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

D. Provide servicing and lubrication schedule, and list of lubricants required.

E. Include manufacturer's printed operation and maintenance instructions.

F. Include sequence of operation by controls manufacturer.

G. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.

H. Provide control diagrams by controls manufacturer as installed.

I. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.

J. Include test and balancing reports.

K. Additional Requirements: As specified in individual product specification sections.

3.05 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Green Bank NA's permission, leave date of beginning of time of warranty until the Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

C. Co-execute submittals when required.

D. Retain warranties and bonds until time specified for submittal.

END OF SECTION

SECTION 02225 - DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Building demolition excluding removal of hazardous materials and toxic substances.

B. Selective demolition of built site elements.

C. Selective demolition of building elements for alteration purposes.

1.02 REFERENCE STANDARDS

A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards, current edition.

B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2009.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Site Plan: Showing:
   1. Vegetation to be protected.
   2. Areas for temporary construction and field offices.

C. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.04 QUALITY ASSURANCE

A. Demolition Firm Qualifications: Company specializing in the type of work required.
   1. Minimum of 5 years of documented experience.

PART 2 PRODUCTS

2.01 MATERIALS

A. Fill Material: As specified in Section 02310 (31 22 00) - Grading

PART 3 EXECUTION

3.01 SCOPE

A. Remove portions of existing buildings in the following sequence:
   1. Remove entire existing Drive-In canopy and ATM building and selected paving..

B. Remove all paving and curbs as indicated on drawings.

C. Outside area of new construction, remove foundation walls and footings to a minimum of 2 feet (600 mm) below finished grade.

D. Remove concrete slabs on grade within site boundaries.

E. Remove creosote-treated wood utility poles.

F. Fill excavations, open pits, and holes in ground areas generated as result of removals, using specified fill; compact fill as specified in Section 02316.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
   1. Obtain required permits.
   2. Comply with applicable requirements of NFPA 241.
   3. Use of explosives is not permitted.
   4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
   5. Provide, erect, and maintain temporary barriers and security devices.
   6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
   7. Conduct operations to minimize effects on and interference

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REGISTERED ARCHITECT
JOE W. KIENAST
1.28.13
STATE OF TEXAS
SEAL

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
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903

with adjacent structures and occupants.
8. Do not close or obstruct roadways or sidewalks without permit.
9. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.

B. Do not begin removal until receipt of notification to proceed from Green Bank NA.

C. Do not begin removal until vegetation to be relocated has been removed and specified measures have been taken to protect vegetation to remain.

D. Protect existing structures and other elements that are not to be removed.
1. Provide bracing and shoring.
2. Prevent movement or settlement of adjacent structures.
3. Stop work immediately if adjacent structures appear to be in danger.

E. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

F. Hazardous Materials: Comply with 29 CFR 1926 and state and local regulations.

G. Perform demolition in a manner that maximizes salvage and recycling of materials.
1. Comply with requirements of Section 01732 (01 74 19) - Waste Management.
2. Dismantle existing construction and separate materials.
3. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.

3.03 EXISTING UTILITIES

A. Contact Dig-Tess and have all underground utilities locate and flagged to commercial construction activities.

B. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.

C. Protect existing utilities to remain from damage.

D. Do not disrupt public utilities without permit from authority having jurisdiction.

E. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Green Bank NA.

F. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Green Bank NA.

G. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.

H. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.

I. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone; identify and mark utilities to be subsequently reconnected, in same manner as other utilities to remain.

3.04 SELECTIVE DEMOLITION FOR ALTERATIONS

A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
1. Verify that construction and utility arrangements are as shown.
2. Report discrepancies to ALEXANDER+KIENAST+SCHNITZ before disturbing existing installation.
3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.

B. Separate areas in which demolition is being conducted from other areas that are still occupied.
1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01500 (01 50 00) in locations indicated on drawings.

C. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.

D. Remove existing work as indicated and as required to accomplish new work.
1. Remove items indicated on drawings.

E. Services (Including but not limited to Plumbing and Electrical): Remove existing systems and equipment as indicated.
1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.
2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
3. Verify that abandoned services serve only abandoned facilities before removal.
4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification.

F. Protect existing work to remain.
1. Prevent movement of structure; provide shoring and bracing if necessary.
2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
3. Repair adjacent construction and finishes damaged during removal work.
4. Patch as specified for patching new work.

3.05 DEBRIS AND WASTE REMOVAL

A. Remove debris, junk, and trash from site.

B. Remove from site all materials not to be reused on site; comply with requirements of Section 01732 (01 74 19) - Waste Management.

C. Leave site in clean condition, ready for subsequent work.

D. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

SECTION 02310 - GRADING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Removal of topsoil.

B. Rough grading the site structures, building foundations and paving areas.

C. Finish grading.

1.02 SUBMITTALS

A. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

1.03 QUALITY ASSURANCE

A. Perform Work in accordance with City of Houston, Public Works Department standards.

PART 2 PRODUCTS

2.01 MATERIALS

A. Topsoil: Friable loam; imported borrow.
1. Graded
2. Free of roots, rocks larger than 1/2 inch (12 mm), subsoil, debris, large weeds and foreign matter.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that survey bench mark and intended elevations for the Work are as indicated.

3.02 PREPARATION

A. Identify required lines, levels, contours, and datum.

B. Stake and flag locations of known utilities.

C. Locate, identify, and protect from damage above- and below-grade utilities to remain.

D. Notify utility company to remove and relocate utilities.

E. Protect site features to remain, including but not limited to bench marks and survey control points, from damage by grading equipment and vehicular traffic.

F. Protect trees to remain by providing substantial fencing around entire tree at the outer tips of its branches; no grading is to be performed inside this line.

G. Protect plants, lawns, rock outcroppings, and other features to remain as a portion of final landscaping.

3.03 ROUGH GRADING

A. Remove topsoil from entire site, without mixing with foreign materials.

B. Do not remove topsoil when wet.

C. Remove subsoil from marked areas.

D. Do not remove wet subsoil.

E. When excavating through roots, perform work by hand and cut roots with sharp axe.

F. Benching Slopes: Horizontally bench existing slopes greater than 1:4 to key fill material to slope for firm bearing.

G. Stability: Replace damaged or displaced subsoil to same requirements as for specified fill.

3.04 SOIL REMOVAL

A. Stockpile topsoil to be re-used on site; remove remainder from site.

B. Stockpile subsoil to be re-used on site; remove remainder from site.

C. Stockpiles: Use areas designated on site; pile depth not to exceed 8 feet (2.5 m); protect from erosion.

3.05 FINISH GRADING

A. Before Finish Grading:
1. Verify building and trench backfilling have been inspected.
2. Verify subgrade has been contoured and compacted.

B. Remove debris, roots, branches, stones, in excess of 1/2 inch (13 mm) in size. Remove soil contaminated with petroleum products.

C. Where topsoil is to be placed, scarify surface to depth of 6 inches (150 mm).

D. In areas where vehicles or equipment have compacted soil, scarify surface to depth of 6 inches (150 mm).

E. Place topsoil where required to level finish grade.

F. Place topsoil to the following compacted thicknesses:
1. Refer landscaping specification Sheet

G. Place topsoil during dry weather.

H. Remove roots, weeds, rocks, and foreign material while spreading.

I. Near plants spread topsoil manually to prevent damage.

J. Fine grade topsoil to eliminate uneven areas and low spots. Maintain profiles and contour of subgrade.

K. Lightly compact placed topsoil.

3.06 REPAIR AND RESTORATION

A. Existing Facilities, Utilities, and Site Features to Remain: If damaged due to this work, repair or replace to original condition.

B. Other Existing Vegetation to Remain: If damaged due to this work, replace with vegetation of equivalent species and size.

3.07 FIELD QUALITY CONTROL

A. See Section 02316 (31 23 23) for compaction density testing.

3.08 CLEANING

A. Remove unused stockpiled topsoil and subsoil. Grade stockpile area to prevent standing water.

B. Leave site clean and raked, ready to receive landscaping.

END OF SECTION

SECTION 02316 - FILL AND BACKFILL

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Filling, backfilling, and compacting for paving and site structures.

B. Filling holes, pits, and excavations generated as a result of removal (demolition) operations.

1.02 DEFINITIONS

A. Finish Grade Elevations: Indicated on drawings.

B. Subgrade Elevations: 4 inches (100 mm) below finish grade elevations indicated on drawings, unless otherwise indicated.

1.03 REFERENCE STANDARDS

A. AASHTO T 180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54 kg (10-lb) Rammer and a 457 mm (18 in.) Drop; American Association of State Highway and Transportation Officials; 2010.

B. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3)); 2012.

C. ASTM D1556 - Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method; 2007.

D. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN m/m3)); 2012.

E. ASTM D2167 - Standard Test Method for Density and Unit Weight of Soil in Place by the Rubber Balloon Method; 2008.

F. ASTM D2487 - Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System); 2011.

G. ASTM D4318 - Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils; 2010.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Fill Composition Test Reports: Results of laboratory tests on proposed and actual materials used.

C. Compaction Density Test Reports.

1.05 DELIVERY, STORAGE, AND HANDLING

A. When necessary, store materials on site in advance of need.

B. When fill materials need to be stored on site, locate stockpiles where indicated.
1. Separate differing materials with dividers or stockpile separately to prevent intermixing.
2. Prevent contamination.
3. Protect stockpiles from erosion and deterioration of materials.

PART 2 PRODUCTS

2.01 FILL MATERIALS

A. General Fill: Subsoil excavated on-site (refer geotechnical report).
1. Graded
2. Free of lumps larger than 3 inches (75 mm), rocks larger than 2 inches (50 mm), and debris.
3. Conforming to ASTM D2487 Group Symbol CL.

B. Structural Fill - Fill Type SM/SC: Conforming to State of Texas Highway Department standard.

C. Structural fill having a Plasticity Index of less than 12.

D. Granular Fill: Coarse aggregate, conforming to State of Texas Highway Department standard.

E. Topsoil: Topsoil excavated on-site.
1. Graded.
2. Free of roots, rocks larger than 1/2 inch (12 mm), subsoil, debris, large weeds and foreign matter.
3. Acidity range (pH) of 5.5 to 7.5.
4. Containing a minimum of 4 percent and a maximum of 25 percent inorganic matter.

2.02 SOURCE QUALITY CONTROL

A. See Section 01400 (01 40 00) - Quality Requirements, for general requirements for testing and analysis of soil material.

B. Where fill materials are specified by reference to a specific standard, test and analyze samples for compliance before delivery to site.

C. If tests indicate materials do not meet specified requirements, change material and retest.

PART 3 EXECUTION

3.01 EXAMINATION

A. Identify required lines, levels, contours, and datum locations.

B. See Section 02310 (31 22 00) for additional requirements.

C. Verify subdrainage, dampproofing, or waterproofing installation has been inspected.

D. Verify structural ability of unsupported walls to support imposed loads by the fill.

3.02 PREPARATION

A. Scarify subgrade surface to a depth of 6 inches (150 mm) to identify soft spots.

B. Cut out soft areas of subgrade not capable of compaction in place. Backfill with general fill, refer to Geotech Report.

C. Compact subgrade to density equal to or greater than requirements for subsequent fill material.

D. Until ready to fill, maintain excavations and prevent loose soil from falling into excavation.

3.03 FILLING

A. Fill to contours and elevations indicated using unfrozen materials.

B. Fill up to subgrade elevations unless otherwise indicated.

C. Employ a placement method that does not disturb or damage other work.

D. Systematically fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.

E. Maintain optimum moisture content of fill materials to attain required compaction density.

F. Granular Fill: Place and compact materials in equal continuous layers not exceeding 6 inches (150 mm) compacted depth.

G. Structural soil Fill: Place and compact material in equal continuous layers not exceeding 8 inches (200 mm) compacted depth.

H. Structural soils to be compacted per EM 1110-2-1913

I. Compaction Density Unless Otherwise Specified or Indicated:
1. Under paving, slabs-on-grade, and similar construction: 95 percent of maximum dry density.

J. Reshape and re-compact fills subjected to vehicular traffic.

3.04 FILL AT SPECIFIC LOCATIONS

A. Structural Fill at paving:
1. Use structural fill.
2. Fill up to subgrade elevations.
3. Maximum depth per lift: 6 inches (150 mm), compacted.
4. Compact to minimum 95 percent of maximum dry density.

3.05 FIELD QUALITY CONTROL

A. See Section 01400 (01 40 00) - Quality Requirements, for general requirements for field inspection and testing.

B. Perform compaction density testing on compacted fill in accordance with ASTM D1556 or ASTM D2167.

C. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D698 ("standard Proctor"), ASTM D1557 ("modified Proctor"), or AASHTO T 180.

D. If tests indicate work does not meet specified requirements, remove work, replace and retest.

E. Frequency of Tests: Each 150 cubic yards.

3.06 CLEANING

A. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.

END OF SECTION

SECTION 02751 - PORTLAND CEMENT CONCRETE PAVING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Concrete sidewalks, integral curbs, gutters, median barriers, parking areas, and roads.

1.02 REFERENCE STANDARDS

A. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete; American Concrete Institute International; 1991 (Reapproved 2002).

B. ACI 301 - Specifications for Structural Concrete for Buildings; American Concrete Institute International; 2010.

C. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete; American Concrete Institute International; 2000.

D. ASTM A185/A185M - Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete; 2007.

E. ASTM A615/A615M - Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement; 2012.

F. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2012a.

G. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete; 2012.

H. ASTM C173/C173M - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method; 2010b.

I. ASTM D1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (nonextruding and Resilient Bituminous Types); 2004 (Reapproved 2008).

J. ASTM D1752 - Standard Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction; 2004a (Reapproved 2008).

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on joint filler, admixtures, and curing compound.

C. Design Data: Indicate pavement thickness, designed concrete strength, reinforcement, and typical details.

PART 2 PRODUCTS

2.01 PAVING ASSEMBLIES

A. Comply with applicable requirements of State of Texas Highways standard (TXDOT).

B. Prepare soil as recommended by the Geo-Technical Report.

C. Design paving for parking, light duty commercial vehicles, residential streets, movement of trucks up to 60,000 lbs (27 200 kg).

D. Concrete Sidewalks and Median Barrier: 3,500 psi 28 day concrete, 4 inches (100 mm) thick, broom finish.

E. Parking Area Pavement: 4,000 psi (27.6 MPa) 28 day concrete, 6 inches thick, reinforcement as indicated on drawings, wood float finish.

2.02 FORM MATERIALS

A. Form Materials: Conform to ACI 301.

B. Joint Filler: Preformed; non-extruding bituminous type (ASTM D1751) or sponge rubber or cork (ASTM D1752).
1. Thickness: 1/2 inch (12 mm).

2.03 REINFORCEMENT

A. Reinforcing Steel: ASTM A615/A615M Grade 40 (280); deformed billet steel bars; unfinished finish.

B. Dowels: ASTM A615/A615M Grade 40 (280); deformed billet steel bars; unfinished finish.

2.04 CONCRETE MATERIALS

A. Obtain cementitious materials from same source throughout.

B. Concrete Materials: As specified in Section 03300 (03 30 00).

2.05 ACCESSORIES

A. Joint Sealer: As specified in Section 07900 (07 90 05).

2.06 CONCRETE MIX DESIGN

A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.

B. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended by manufacturer.

C. Concrete Properties:
1. Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: 4000 psi (MPa).
2. Water-Cement Ratio: Maximum 40 percent by weight.
3. Total Air Content: 4 percent, determined in accordance with ASTM C173/C173M.
4. Maximum Slump: 3 inches (75 mm).

2.07 MIXING

A. Transit Mixers: Comply with ASTM C94/C94M.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify compacted subgrade is acceptable and ready to support paving and imposed loads.

B. Verify gradients and elevations of base are correct.

3.02 PREPARATION

A. Moisten base to minimize absorption of water from fresh concrete.

B. Notify ALEXANDER+KIENAST+SCHNITZ minimum 24 hours prior to commencement of concreting operations.

3.03 FORMING

A. Place and secure forms to correct location, dimension, profile, and gradient.

B. Assemble formwork to permit easy stripping and dismantling without damaging concrete.

C. Place joint filler vertical in position, in straight lines. Secure to formwork during concrete placement.

3.04 REINFORCEMENT

A. Place reinforcement at top of slabs-on-grade.

B. Interrupt reinforcement at contraction joints.

C. Place dowels to achieve pavement and curb alignment as detailed.

3.05 PLACING CONCRETE

A. Place concrete as specified in Section 03300 (03 30 00).

B. Ensure reinforcement, inserts, embedded parts, formed joints are not disturbed during concrete placement.

C. Place concrete continuously over the full width of the panel and between predetermined construction joints. Do not break or interrupt successive pours such that cold joints occur.

D. Apply surface retarder to all exposed surfaces in accordance with manufacturer's instructions.

3.06 JOINTS

A. Align curb, gutter, and sidewalk joints.

B. Place 3/8 inch (10 mm) wide expansion joints at 20 foot (6 m) intervals and to separate paving from vertical surfaces and other components and in pattern indicated.
1. Form joints with joint filler extending from bottom of pavement to within 1/2 inch (13 mm) of finished surface.
2. Secure to resist movement by wet concrete.

C. Provide scored joints:
1. At locations indicated on Drawings

D. Saw cut contraction joints 3/16 inch (5 mm) wide at an optimum time after finishing. Cut 1/3 into depth of slab.

3.07 FINISHING

A. Area Paving: Light broom, texture perpendicular to pavement direction.

B. Sidewalk Paving: Light broom, texture perpendicular to direction of travel with troweled and radiused edge 1/4 inch (6 mm) radius.

C. Curbs and Gutters: Light broom, texture parallel to pavement direction.

D. Inclined Vehicular Ramps: Broomed perpendicular to slope.

E. Place curing compound on exposed concrete surfaces immediately after finishing. Apply in accordance with manufacturer's instructions.

3.08 JOINT SEALING

A. See Section 07900 (07 90 05) for joint sealer requirements.

3.09 TOLERANCES

A. Maximum Variation of Surface Flatness: 1/4 inch (6 mm) in 10 ft (3 m).

3.10 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01400 (01 40 00).
1. Provide free access to concrete operations at project site and cooperate with appointed firm.
2. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.
3. Tests of concrete and concrete materials may be performed at any time to ensure conformance with specified requirements.

B. Compressive Strength Tests: ASTM C39/C39M. For each test, mold and cure three concrete test cylinders. Obtain test samples for every 100 cu yd (76 cu m) or less of each class of concrete placed.
1. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.
2. Perform one slump test for each set of test cylinders taken.

C. Maintain records of placed concrete items. Record date, location of pour, quantity, air temperature, and test samples taken.

3.11 PROTECTION

A. Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, and mechanical injury.

B. Do not permit pedestrian or vehicular traffic over pavement until 75 percent design strength of concrete has been achieved.

END OF SECTION

SECTION 02765 - PAVEMENT MARKINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Parking lot markings, including parking bays, crosswalks, arrows, handicapped symbols, and curb markings.

B. "No Parking" curb painting.

1.02 REFERENCE STANDARDS

A. FS TT-P-1952 - Paint, Traffic Black, and Airfield Marking, Waterborne; Rev. E, 2007.

B. MPI (APL) - Master Painters Institute Approved Products List; Master Painters and Decorators Association; current edition, www.paintinfo.com

C. FHWA MUTCD - Manual on Uniform Traffic Control Devices for Streets and Highways; U.S. Department of Transportation, Federal Highway Administration; http://mutcd.fhwa.dot.gov; current edition.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.04 FIELD CONDITIONS

A. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 MATERIALS

A. Line and Zone Marking Paint: MPI No. 97 Latex Traffic Marking Paint; color(s) as indicated.
1. Parking Lots: White.
2. Parking Lots: Yellow.
3. Handicapped Symbols: Blue.

B. Paint For Obliterating Existing Markings: FS TT-P-1952; black for bituminous pavements, gray for portland cement pavements.

C. Temporary Marking Tape: Preformed, reflective, pressure sensitive adhesive tape in color(s) required; Contractor is responsible for selection of material of sufficient durability as to perform satisfactorily during period for which its use is required.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify ALEXANDER+KIENAST+SCHNITZ of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Allow new pavement surfaces to cure for a period of not less than 14 days before application of marking materials.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Obliteration of existing markings using paint is acceptable in lieu of removal: apply the black paint in as many coats as necessary to completely obliterate the existing markings.

D. Clean surfaces thoroughly prior to installation.
1. Remove dust, dirt, and other granular surface deposits by sweeping, blowing with compressed air, rinsing with water, or a combination of these methods.

E. Where oil or grease are present, scrub affected areas with several applications of trisodium phosphate solution or other approved detergent or degreaser, and rinse thoroughly after each application; after cleaning, seal oil-soaked areas with cut shellac to prevent bleeding through the new paint.

F. Establish survey control points to determine locations and dimensions of markings; provide templates to control paint application by type and color at necessary intervals.

G. Temporary Pavement Markings: When required or directed by ALEXANDER+KIENAST+SCHNITZ, apply temporary markings of the color(s), width(s) and length(s) as indicated or directed.
1. After temporary marking has served its purpose, remove temporary marking by carefully controlled sandblasting, approved grinding equipment, or other approved method so that surface to which the marking was applied will not be damaged.
2. At Contractor's option, temporary marking tape may used in lieu of temporary painted marking; remove unsatisfactory tape and replace with painted markings at no additional cost to Green Bank NA.

3.03 INSTALLATION

A. Begin pavement marking as soon as practicable after surface has been cleaned and dried.

B. Do not apply paint if temperature of surface to be painted or the atmosphere is less than 50 degrees F (10 degrees C) or more than 95 degrees F (35 degrees C).

C. Apply in accordance with manufacturer's instructions using an experienced technician that is thoroughly familiar with equipment, materials, and marking layouts.

D. Comply with FHWA MUTCD manual (http://mutcd.fhwa.dot.gov) for details not shown.

E. Apply markings in locations determined by measurement from survey control points; preserve control points until after markings have been accepted.

F. Apply uniformly painted markings of color(s), lengths, and widths as indicated on the drawings true, sharp edges and ends.
1. Apply paint in one coat only.
2. Wet Film Thickness: 0.015 inch (0.4 mm), minimum.
3. Width Tolerance: Plus or minus 1/8 inch (3 mm).

G. Parking Lots: Apply parking space lines, entrance and exit arrows, painted curbs, and other markings indicated on drawings.
1. Mark the International Handicapped Symbol at indicated parking spaces.
2. Hand application by pneumatic spray is acceptable.

H. Symbols: Use a suitable template that will provide a pavement marking with true, sharp edges and ends, of the design and size indicated.

3.04 DRYING, PROTECTION, AND REPLACEMENT

A. Protect newly painted markings so that paint is not picked up by tires, smeared, or tracked.

B. Provide barricades, warning signs, and flags as necessary to prevent traffic crossing newly painted markings.

C. Allow paint to dry at least the minimum time specified by the applicable paint standard and not less than that recommended by the manufacturer.

D. Remove and replace markings that are applied at less than minimum material rates; deviate from true alignment; exceed length and width tolerances; or show light spots, smears, or other deficiencies or irregularities.

E. Remove markings in manner to avoid damage to the surface to which the marking was applied, using carefully controlled sand blasting, approved grinding equipment, or other approved method.

F. Replace removed markings at no additional cost to Green Bank NA.

END OF SECTION

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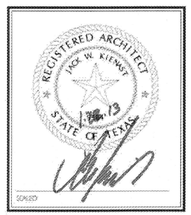

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

SECTION 02783 - CONCRETE PAVERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Non-interlocking concrete paver units.

B. Edge restraints.

1.02 REFERENCE STANDARDS

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide characteristics of paver unit, detectable warning pavers, dimensions, and special shapes.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Non-interlocking Concrete Pavers: The design is based on the following product: PaveStone. Also acceptable, subject to compliance with specified requirements:
1. Substitutions: Not permitted.

2.02 MATERIALS

A. Non-interlocking Pavers: Precast concrete.
1. Compressive Strength: Minimum of 7200 psi (50 MPa).
2. Absorption: 5 percent average, with maximum of 7 percent.
3. Air Entrainment: 5 to 7 percent.
4. Size: As indicated on drawings.
5. Thickness: 2-3/8 inches (60 mm).
6. Color: Selected from manufacturer's full range.

B. Detectable Warning Pavers: Cast concrete with truncated domes, Terra Cotta color.

C. Edging: Concrete curb, as detailed.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate is level or to correct gradient, smooth, capable of supporting pavers and imposed loads, and ready to receive work of this Section.

B. Verify gradients and elevations of substrate are correct.

3.02 INSTALLATION OF SOLID PAVER UNITS

A. Place paver units in pattern indicated on the drawings.

B. Cut paver units at edges with masonry saw.

C. Place half units at edge and interruptions. Maintain tight joints.

D. Tamp and level paver units with mechanical vibrator until units are firmly bedded, level, and to correct elevation and gradients. Do not tamp unrestrained edges.

END OF SECTION

SECTION 02843 - PARKING BUMPERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Precast concrete parking bumpers and anchorage.

1.02 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide unit configuration, dimensions.

PART 2 PRODUCTS

2.01 MATERIALS

A. Parking Bumpers: Precast concrete, conforming to the following:
1. Profile: Rectangular cross section with sloped vertical faces, square ends.
2. Cement: ASTM C150, Portland Type I - Normal; white color.
3. Concrete Materials: ASTM C33 aggregate, water, and sand.
4. Reinforcing Steel: ASTM A615/A615M, deformed steel bars; unfinished finish, strength and size commensurate with precast unit design.
5. Air Entrainment Admixture: ASTM C260.
6. Concrete Mix: Minimum 5000 psi (34 MPa), 28 day strength, air entrained to 5 to 7 percent.
7. Use rigid molds, constructed to maintain precast units uniform in shape, size and finish. Maintain consistent quality during manufacture.
8. Embed reinforcing steel, and drill or sleeve for two dowels.
9. Cure units to develop concrete quality, and to minimize appearance blemishes such as non-uniformity, staining, or surface cracking.
10. Minor patching in plant is acceptable, providing appearance of units is not impaired.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install units without damage to shape or finish. Replace or repair damaged units.

B. Install units in alignment with adjacent work.

C. Fasten units in place with 2 dowels per unit.

END OF SECTION

SECTION 02923 - SODDING

PART 1 GENERAL

2.01 SECTION INCLUDES

A. Preparation of subsoil.

B. Placing topsoil.

C. Fertilizing.

D. Sod installation.

E. Maintenance.

2.02 DEFINITIONS

A. Weeds: Includes Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, and Brome Grass.

2.03 REFERENCE STANDARDS

A. TPI (SPEC) - Guideline Specifications to Turfgrass Sodding; Turfgrass Producers International; 2006.

2.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Certification: Submit certification of grass species and location of sod source.

C. Maintenance Data: Include maintenance instructions, cutting method and maximum grass height; types, application frequency, and recommended coverage of fertilizer.

D. Maintenance Contract.

2.05 QUALITY ASSURANCE

A. Sod Producer: Company specializing in sod production and harvesting with minimum five years experience, and certified by the State of Project construction.

2.06 REGULATORY REQUIREMENTS

A. Comply with regulatory agencies for fertilizer and herbicide composition.

B. Provide certificate of compliance from authority having jurisdiction indicating approval of fertilizer and herbicide mixture.

2.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver sod on pallets. Protect exposed roots from dehydration.

B. Do not deliver more sod than can be laid within 24 hours.

PART 2 PRODUCTS

3.01 MATERIALS

A. Sod: TPI, Certified Turfgrass Sod quality; cultivated grass sod; type indicated in plant schedule on Drawings; with strong fibrous root system, free of stones, burned or bare spots; containing no more than 5 weeds per 1000 sq ft (100 sq m). Minimum age of 18 months, with root development that will support its own weight without tearing, when suspended vertically by holding the upper two corners.
1. Hybrid Bermudagrass: 100%

B. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay, or impurities, plants, weeds and roots; pH value of minimum 5.4 and maximum 7.0.
1. Sandy Loam, USGS Classification II

C. Fertilizer: Type as; recommended for grass, with fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, as indicated by analysis.

D. Water: Clean, fresh and free of substances or matter that could inhibit vigorous growth of grass.

3.02 ACCESSORIES

A. Edging: Galvanized steel.
1. Col-Met, 7 ga. 6 inch steel edging #1007-6.

3.03 SOURCE QUALITY CONTROL

A. Analyze to ascertain percentage of nitrogen, phosphorus, potash,, soluble salt content, organic matter content, and pH value.

PART 3 EXECUTION

4.01 EXAMINATION

A. Verify that prepared soil base is ready to receive the work of this section.

4.02 PREPARATION

A. Prepare subgrade in accordance with Section 02310 (31 22 00).

B. Place topsoil in accordance with Section 02310 (31 22 00).

C. Install edging at periphery of seeded areas in straight lines to consistent depth as indicated on drawings.
1. Chamfer edging at 45 degrees at intersections with side-walks.

4.03 FERTILIZING

A. Apply fertilizer in accordance with manufacturer's instructions.

B. Apply after smooth raking of topsoil and prior to installation of sod.

C. Apply fertilizer no more than 48 hours before laying sod.

D. Mix thoroughly into upper 2 inches (50 mm) of topsoil.

E. Lightly water to aid the dissipation of fertilizer.

4.04 LAYING SOD

A. Sod shall not be in lain prior to installation of irrigation system.

B. Moisten prepared surface immediately prior to laying sod.

C. Lay sod immediately after delivery to site to prevent deterioration.

D. Lay sod smooth and tight with no open joints visible, and no overlapping; stagger end joints 12 inches (300 mm) minimum. Do not stretch or overlap sod pieces.

E. Water sodded areas immediately after installation. Saturate sod to 4 inches (100 mm) of soil.

F. After sod and soil have dried, roll sodded areas to ensure good bond between sod and soil and to remove minor depressions and irregularities. Roll sodded areas with roller not exceeding 50 lbs (22.7 kg).

G. If necessary; weld joints with hand applied topsoil at any open joint to protect root system.

4.05 MAINTENANCE

A. Provide maintenance at no extra cost to Green Bank NA for 90 days from Date of Substantial Completion; Green Bank NA will pay for water.

B. Provide a separate maintenance contract for specified maintenance service.

C. Maintain sodded areas immediately after placement until grass is well established and exhibits a vigorous growing condition.

D. Mow grass at regular intervals to maintain at a maximum height of 2-1/2 inches (65 mm). Do not cut more than 1/3 of grass blade at any one mowing.

E. Neatly trim edges and hand clip where necessary.

F. Immediately remove clippings after mowing and trimming.

G. Water to prevent grass and soil from drying out.

H. Roll surface to remove irregularities.

I. Control growth of weeds. Apply herbicides in accordance with manufacturer's instructions. Remedy damage resulting from improper use of herbicides.

J. Immediately replace sod to areas that show deterioration or bare spots.

K. Protect sodded areas with warning signs during maintenance period.

END OF SECTION

SECTION 02930 - EXTERIOR PLANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preparation of subsoil.

B. Topsoil bedding.

C. New trees, plants, and ground cover.

D. Mulch and Fertilizer.

E. Maintenance.

1.02 DEFINITIONS

A. Weeds: Any plant life not specified or scheduled.

B. Plants: Living trees, plants, and ground cover specified in this Section, and described in ANSI Z60.1.

1.03 REFERENCE STANDARDS

A. ANSI/ANLA Z60.1 - American Standard for Nursery Stock; 2004.

B. ANSI A300 Part 1 - American National Standard for Tree Care Operations — Tree, Shrub and Other Woody Plant Maintenance — Standard Practices; 2008.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Maintenance Data: Include cutting and trimming method; types, application frequency, and recommended coverage of fertilizer.

C. Submit list of plant life sources.

D. Maintenance Contract.

1.05 QUALITY ASSURANCE

A. Nursery Qualifications: Company specializing in growing and cultivating the plants with three years documented experience.

B. Installer Qualifications: Company specializing in installing and planting the plants with 5 years experience.

1.06 REGULATORY REQUIREMENTS

A. Comply with regulatory agencies for fertilizer and herbicide composition.

B. Provide certificate of compliance from authority having jurisdiction indicating approval of plants, fertilizer and herbicide mixture.

C. Plant Materials: Certified by federal department of agriculture; free of disease or hazardous insects.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

B. Protect and maintain plant life until planted.

C. Deliver plant life materials immediately prior to placement. Keep plants moist.

1.08 FIELD CONDITIONS

A. Do not install plant life when ambient temperatures may drop below 35 degrees F (2 degrees C) or rise above 90 degrees F (32 degrees C).

B. Do not install plant life when wind velocity exceeds 30 mph (48 k/hr).

1.09 WARRANTY

A. See Section 01780 (01 78 00) - Closeout Submittals, for additional warranty requirements.

B. Provide one year warranty.

C. Replacements: Plants of same size and species as specified, planted in the next growing season, with a new warranty commencing on date of replacement.

PART 2 PRODUCTS

2.01 PLANTS

A. Plants: Species and size identified in plant schedule, grown in climatic conditions similar to those in locality of the work.

2.02 SOIL MATERIALS

A. Topsoil: Fertile, agricultural soil, typical for locality, capable of sustaining vigorous plant growth, taken from drained site; free of subsoil, clay or impurities, plants, weeds and roots; minimum pH value of 5.4 and maximum 7.0.

2.03 SOIL AMENDMENT MATERIALS

A. Fertilizer: Containing fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, as indicated in analysis..

B. Peat Moss: Shredded, loose, sphagnum moss; free of lumps, roots, inorganic material or acidic materials; minimum of 85 percent organic material measured by oven dry weight, pH range of 4 to 5; moisture content of 30 percent.

C. Water: Clean, fresh, and free of substances or matter that could inhibit vigorous growth of plants.

2.04 MULCH MATERIALS

A. Mulching Material: Cypress species wood shavings, free of growth or germination inhibiting ingredients.

2.05 ACCESSORIES

A. Wrapping Materials: Burlap.

B. Stakes: Mild steel angle, galvanized, pointed end.

C. Cable, Wire, Eye Bolts and Turnbuckles: Non-corrosive, of sufficient strength to withstand wind pressure and resulting movement of plant life.

D. Plant Protectors: Rubber sleeves over cable to protect plant stems, trunks, and branches.

E. Tree Protectors: Metal with galvanized rings.
1. Col-Met commercial grade steel landscape edging; Model 1007-6, 10 feet long,7 gauge, sections, with 4 stakes per length.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that prepared subsoil and planters are ready to receive work.

B. Saturate soil with water to test drainage.

C. Install planting in coordination with irrigation system installation.

3.02 PREPARATION OF SUBSOIL

A. Prepare subsoil to eliminate uneven areas. Maintain profiles and contours. Make changes in grade gradual. Blend slopes into level areas.

B. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated subsoil.

C. Scarify subsoil to a depth of 3 inches (75 mm) where plants are to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted subsoil.

D. Dig pits and beds 6 inches (150 mm) larger than plant root system.

3.03 PLACING TOPSOIL

A. Spread topsoil to a minimum depth of 4 inches (100 mm) over area to be planted. Rake smooth.

B. Place topsoil during dry weather and on dry unfrozen subgrade.

C. Remove vegetable matter and foreign non-organic material from topsoil while spreading.

D. Grade topsoil to eliminate rough, low or soft areas, and to ensure positive drainage.

E. Install topsoil into pits and beds intended for plant root balls, to a minimum thickness of 6 inches (150 mm).

3.04 FERTILIZING

A. Apply fertilizer in accordance with manufacturer's instructions.

B. Apply after initial raking of topsoil.

C. Mix thoroughly into upper 2 inches (50 mm) of topsoil.

D. Lightly water to aid the dissipation of fertilizer.

3.05 PLANTING

A. Place plants as indicated for review and final orientation by ALEXANDER+KIENAST+SCHNITZ.

B. Set plants vertical.

C. Remove non-biodegradable root containers.

D. Set plants in pits or beds, partly filled with prepared plant mix, at a minimum depth of 6 inches (150 mm) under each plant. Remove burlap, ropes, and wires, from the root ball.

E. Place bare root plant materials so roots lie in a natural position. Backfill soil mixture in 6 inch (150 mm) layers. Maintain plant life in vertical position.

F. Saturate soil with water when the pit or bed is half full of topsoil and again when full.

3.06 INSTALLATION OF ACCESSORIES

A. Place decorative cover and membrane, where indicated on drawings.

B. Wrap deciduous shade and flowering tree trunks and place tree protectors.

3.07 PLANT SUPPORT

A. Brace plants vertically with plant protector wrapped guy wires and stakes to the following:
1. Tree Caliper: 2 to 4 inches (50 to 100 mm); Tree Support Method: 3 guy wires with eye bolts and turn buckles

3.08 MAINTENANCE

A. Provide maintenance at no extra cost to Green Bank NA; Green Bank NA will pay for water.

B. Irrigate sufficiently to saturate root system and prevent soil from drying out.

C. Remove dead or broken branches and treat pruned areas or other wounds.

D. Neatly trim plants where necessary.

E. Immediately remove clippings after trimming.

F. Control growth of weeds. Apply herbicides in accordance with manufacturer's instructions.

G. Control insect damage and disease. Apply pesticides in accordance with manufacturers instructions.

H. Remedy damage from use of herbicides and pesticides.

I. Replace mulch when deteriorated.

J. Maintain wrappings, guys, turnbuckles, and stakes. Adjust turnbuckles to keep guy wires tight. Repair or replace accessories when required.

END OF SECTION

SECTION 03505 - SELF-LEVELING UNDERLAYMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Liquid-applied self-leveling floor underlayment.
1. Use gypsum-based type at minor floor leveling.
2. Use cementitious type at sever floor damage and uneven or out of plum conditions.

1.02 REFERENCE STANDARDS

A. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens); 2011b.

B. ASTM C348 - Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars; 2008.

C. ASTM C472 - Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete; 1999 (Reapproved 2009).

D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2012.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's data sheets documenting physical characteristics and product limitations of underlayment materials. Include information on surface preparation, environmental limitations, and installation instructions.

1.04 QUALITY ASSURANCE

A. Applicator Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Visually verify containers intended for use, containers quantity used in complete application.

C. Keep dry and protect from direct sun exposure, freezing, and ambient temperature greater than 105 degrees F (41 degrees C).

1.06 REGULATORY REQUIREMENTS

A. Conform to applicable code for combustibility or flame spread requirements.

1.07 FIELD CONDITIONS

A. Do not install underlayment until floor penetrations and peripheral work are complete.

B. Maintain minimum ambient temperatures of 50 degrees F (10 degrees C) 24 hours before, during and 72 hours after installation of underlayment.

C. During the curing process, ventilate spaces to remove excess moisture.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Gypsum Underlayment:
1. Ardex Engineered Cements; Ardex GS-4: www.ardexamericas.com.
2. Maxxon Corporation; Product Gyp-Crete 2000: www.maxxon.com.
3. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Cementitious Underlayment:
1. Ardex Engineered Cements; Ardex K 15: www.ardexamericas.com.
2. ProSpec, an Oldcastle brand; Level Set Wear Topping: www.prospec.com.
3. LATICRETE SUPERCAP, LLC; LATICRETE SUPERCAP: www.laticretesupercap.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 MATERIALS

A. Gypsum-Based Underlayment: Gypsum based mix, that when mixed with water in accordance with manufacturer's directions will produce self-leveling underlayment with the following properties.
1. Compressive Strength: Minimum 2500 psi (17.24 MPa), tested per ASTM C472.
2. Density: Maximum 115 lb/cu ft (1842 kg/cu m).
3. Final Set Time: 1 to 2 hours, maximum.
4. Thickness: 3/4 inch (19 mm) to maximum 3-1/2 inch (89 mm).
5. Surface Burning Characteristics: Flame spread/Smoke developed index of 0/0 in accordance with ASTM E84.

B. Cementitious Underlayment: Blended cement mix, that when mixed with water in accordance with manufacturer's directions will produce self-leveling underlayment with the following properties:
1. Compressive Strength: Minimum 4000 psi (27.6 MPa) after 28 days, tested per ASTM C109/C109M.
2. Flexural Strength: Minimum 1000 psi (6.9 MPa) after 28 days, tested per ASTM C348.
3. Density: 125 lb/cu ft (2002 kg/cu m), nominal.
4. Final Set Time: 1-1/2 to 2 hours, maximum.
5. Thickness: Capable of thicknesses from feather edge to maximum 3-1/2 inch (89 mm).
6. Surface Burning Characteristics: Flame spread/Smoke developed index of 0/0 in accordance with ASTM E84.

C. Water: Potable and not detrimental to underlayment mix materials.

D. Primer: Manufacturer's recommended type.

E. Joint and Crack Filler: Latex based filler, as recommended by manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are clean, dry, unfrozen, do not contain petroleum bi-products, or other compounds detrimental to underlayment material bond to substrate.

3.02 PREPARATION

A. Concrete: Mechanically prepare steel troweled concrete to create a textured surface necessary to achieve the best bond; acceptable methods include bead blasting and scarifying. Do not use acid etching.

B. Remove substrate surface irregularities. Fill voids and deck joints with filler. Finish smooth.

C. Vacuum clean surfaces.

D. Prime substrate in accordance with manufacturer's instructions. Allow to dry.

E. Close floor openings.

3.03 APPLICATION

A. Install underlayment in accordance with manufacturer's instructions.

B. Place to indicated thickness, with top surface level to 1/8 inch in 10 ft (1:1000).

3.04 CURING

A. Once underlayment starts to set, prohibit foot traffic until final set has been reached.

B. Air cure in accordance with manufacturer's instructions.

3.05 PROTECTION

A. Protect against direct sunlight, heat, and wind; prevent rapid drying to avoid shrinkage and cracking.

B. Do not permit traffic over unprotected floor underlayment surfaces.

END OF SECTION

SECTION 05500 - METAL FABRICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Shop fabricated steel items.

1.02 REFERENCE STANDARDS

A. ANSI A14.3 - American National Standard for Ladders --- Fixed --- Safety Requirements; 2008.

B. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2008.

C. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless; 2012.

D. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2012.

E. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.

F. ASTM A283/A283M - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates; 2012.

G. ASTM A325 - Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength; 2010.

H. ASTM A325M - Standard Specification for Structural Bolts, Steel, Heat Treated 830 MPa Tensile Strength (Metric); 2009.

I. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; American Welding Society; 2012.

J. AWS D1.1/D1.1M - Structural Welding Code - Steel; American Welding Society; 2010.

K. SSPC-Paint 15 - Steel Joist Shop Primer; Society for Protective Coatings; 1999 (Ed. 2004).

L. SSPC-Paint 20 - Zinc-Rich Primers (Type I, "Inorganic," and Type II, "Organic"); Society for Protective Coatings; 2002 (Ed. 2004).

M. SSPC-SP 2 - Hand Tool Cleaning; Society for Protective Coatings: 1982 (Ed. 2004).

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
1. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.

C. Welders' Certificates: Submit certification for welders employed on the project, verifying AWS qualification within the previous 12 months.

D. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.

PART 2 PRODUCTS

2.01 MATERIALS - STEEL

A. Steel Sections: ASTM A36/A36M.

B. Plates: ASTM A283.

C. Pipe: ASTM A53/A53M, Grade B Schedule 40, black finish.

D. Bolts, Nuts, and Washers: ASTM A325 (ASTM A325M), Type 1, galvanized to ASTM A153/A153M where connecting galvanized components.

E. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

F. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

G. Touch-Up Primer for Galvanized Surfaces: SSPC-Paint 20, Type I - Inorganic, complying with VOC limitations of authorities having jurisdiction.

2.02 FABRICATION

A. Fit and shop assemble items in largest practical sections, for delivery to site.

B. Fabricate items with joints tightly fitted and secured.

C. Continuously seal joined members by intermittent welds and plastic filler.

D. Grind exposed joints flush and smooth with adjacent finish surface. Make exposed joints butt tight, flush, and hairline. Ease exposed edges to small uniform radius.

E. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

F. Supply components required for anchorage of fabrications. Fabricate anchors and related components of same material and finish as fabrication, except where specifically noted otherwise.

2.03 FABRICATED ITEMS

A. Bollards: Steel pipe, concrete filled, crowned cap, as detailed; prime paint finish.

B. Ledge Angles, Shelf Angles, Channels, and Plates Not Attached to Structural Framing: For support of metal decking; prime paint finish.

C. Lintels: As detailed; prime paint finish.

2.04 FINISHES - STEEL

A. Prime paint all steel items.
1. Exceptions: Galvanize items to be embedded in concrete and items to be imbedded in masonry.

B. Prepare surfaces to be primed in accordance with SSPC-SP2.

C. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.

D. Prime Painting: Two coats.

E. Galvanizing of Non-structural Items: Galvanize after fabrication to ASTM A123/A123M requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

3.02 INSTALLATION

A. Install items plumb and level, accurately fitted, free from distortion or defects.

B. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.

C. Obtain approval prior to site cutting or making adjustments not scheduled.

D. After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

3.03 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch (6 mm) per story, non-cumulative.

B. Maximum Offset From True Alignment: 1/4 inch (6 mm).

C. Maximum Out-of-Position: 1/4 inch (6 mm).

END OF SECTION

SECTION 06100 - ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Structural dimension lumber framing.

B. Rough opening framing for doors, windows, and roof openings.

C. Sheathing.

D. Underlayment.

E. Roof-mounted curbs.

F. Roofing nailers.

G. Roofing cant strips.

H. Preservative treated wood materials.

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STATE OF TEXAS
SEALED

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

905

I. Fire retardant treated wood materials.

J. Miscellaneous framing and sheathing.

K. Communications and electrical room mounting boards.

L. Concealed wood blocking, nailers, and supports.

M. Miscellaneous wood nailers, furring, and grounds.

N. Roof sheathing with factory applied water-resistive barrier.

1.02 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard; 2009.

B. ASTM D2898 - Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing; 2010.

C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2012.

D. AWPA U1 - Use Category System: User Specification for Treated Wood; American Wood Protection Association; 2010.

E. PS 1 - Structural Plywood; 2009.

F. PS 20 - American Softwood Lumber Standard; National Institute of Standards and Technology (Department of Commerce); 2005.

G. WWPA G-5 - Western Lumber Grading Rules; Western Wood Products Association; 2011.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide technical data on insulated sheathing and wood preservative materials.

C. Manufacturer's Certificate: Certify that wood products supplied for rough carpentry meet or exceed specified requirements.

D. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Green Bank NA's name and registered with manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, or installation.

1.05 WARRANTY

A. See Section 01780 (01 78 00) - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
1. If no species is specified, provide any species graded by the agency specified; if no grading agency is specified, provide lumber graded by any grading agency meeting the specified requirements.
2. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.

B. Lumber fabricated from old growth timber is not permitted.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Grading Agency: Western Wood Products Association (WWPA).

B. Sizes: Nominal sizes as indicated on drawings, S4S.

C. Moisture Content: S-dry or MC19.

D. Stud Framing (2 by 2 through 2 by 6 (50 by 50 mm through 50 by 150 mm)):
1. Species: Any allowed under referenced grading rules.
2. Grade: No. 2.

E. Joist, Rafter, and Small Beam Framing (2 by 6 through 4 by 16 (50 by 150 mm through 100 by 400 mm)):
1. Machine stress-rated (MSR) as follows:
   a. Fb-single (minimum extreme fiber stress in bending): 1350 psi (9,300 kPa).
   b. E (minimum modulus of elasticity): 1,300,000 psi (8960 MPa).

F. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No. 2 or Standard Grade.
2. Boards: Standard or No. 3.

2.03 CONSTRUCTION PANELS

A. Roof Sheathing: APA PRP-108, Structural I Rated Sheathing, Exterior Exposure Class, and as follows:
1. Span Rating: 24/0 (610/0).
2. Thickness: 3/4 inch (19 mm), nominal.

B. Wall Sheathing: APA PRP-108, Structural I Rated Sheathing, Exterior Exposure Class, and as follows:
1. Span Rating: 24/0 (610/0).
2. Thickness: 15/32 inch (12 mm), nominal.

C. Wall Sheathing: Plywood, PS 1, Grade C-D, Exposure I.

D. Wall Sheathing: Oriented strand board structural wood panel; PS 2.
1. Edge Profile: Square edge.

E. Communications and Electrical Room Mounting Boards: PS 1 A-D plywood, or medium density fiberboard; 3/4 inch (19 mm) thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.

2.04 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

B. Fire-Retardant Treatment:
1. Manufacturers:
   a. Arch Wood Protection, Inc: www.wolmanizedwood.com.
   b. Hoover Treated Wood Products, Inc: www.frtw.com.
   c. Substitutions: See Section 01600 (01 60 00) - Product Requirements.
2. Exterior Type: AWPA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread rating of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with ASTM D2898.
   a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
   b. Do not use treated wood in direct contact with the ground.
3. Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread rating of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.
   a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
   b. Treat rough carpentry items as indicated .
   c. Do not use treated wood in applications exposed to weather or where the wood may become wet.

C. Preservative Treatment:
1. Manufacturers:
   a. Arch Wood Protection, Inc: www.wolmanizedwood.com.
   b. Viance, LLC: www.treatedwood.com.
   c. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

D. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative to 0.25 lb/cu ft (4.0 kg/cu m) retention.
1. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
2. Treat lumber exposed to weather.
3. Treat lumber in contact with roofing, flashing, or waterproofing.
4. Treat lumber in contact with masonry or concrete.

PART 3 EXECUTION

3.01 PREPARATION

A. Install sill gasket under sill plate of framed walls bearing on foundations; puncture gasket cleanly to fit tightly around protruding anchor bolts.

3.02 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.03 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to code authorities may be used in lieu of solid wood blocking.

C. In metal stud walls, provide continuous blocking around door and window openings for anchorage of frames, securely attached to stud framing.

D. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.

E. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.

3.04 ROOF-RELATED CARPENTRY

A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation.

B. Provide wood curb at all roof openings except where specifically indicated otherwise. Form corners by alternating lapping side members.

3.05 INSTALLATION OF CONSTRUCTION PANELS

A. Roof Sheathing: Secure panels with long dimension perpendicular to framing members, with ends staggered and over firm bearing.
1. Nail panels to framing; staples are not permitted.

B. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using nails, screws, or staples.

C. Communications and Electrical Room Mounting Boards: Secure with screws to studs with edges over firm bearing; space fasteners at maximum 24 inches (610 mm) on center on all edges and into studs in field of board.
1. At fire-rated walls, install board over wall board indicated as part of the fire-rated assembly.
2. Where boards are indicated as full floor-to-ceiling height, install with long edge of board parallel to studs.
3. Install adjacent boards without gaps.

3.06 TOLERANCES

A. Framing Members: 1/4 inch (6 mm) from true position, maximum.

B. Variation from Plane (Other than Floors): 1/4 inch in 10 feet (2 mm/m) maximum, and 1/4 inch in 30 feet (7 mm in 10 m) maximum.

3.07 CLEANING

A. Waste Disposal: Comply with the requirements of Section 01732 (01 74 19).
1. Comply with applicable regulations.
2. Do not burn scrap on project site.
3. Do not burn scraps that have been pressure treated.
4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or "waste-to-energy" facilities.

B. Do not leave any wood, shavings, sawdust, etc. on the ground or buried in fill.

C. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION

SECTION 06410 - CUSTOM CABINETS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Specially fabricated cabinet units.

B. Countertops.

C. Cabinet hardware.

1.02 REFERENCE STANDARDS

A. ANSI A208.2 - American National Standard for Medium Density Fiberboard for Interior Use; 2009.

B. AWI (QCP) - Quality Certification Program; www.awiqcp.org; current edition at www.awiqcp.org.

C. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2009.

D. BHMA A156.9 - American National Standard for Cabinet Hardware; Builders Hardware Manufacturers Association; 2010 (ANSI/BHMA A156.9).

E. NEMA LD 3 - High-Pressure Decorative Laminates; National Electrical Manufacturers Association; 2005.

F. WI (CCP) - Certified Compliance Program (CCP); current edition at www.woodworkinstitute.com/certification.

G. WI (MCP) - Monitored Compliance Program (MCP); current edition at www.woodworkinstitute.com/certification.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.
1. Minimum Scale of Detail Drawings: 1-1/2 inch to 1 foot (1:8).
2. Provide the information required by AWI/AWMAC/WI Architectural Woodwork Standards.

C. Product Data: Provide data for hardware accessories.

1.05 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum 10 years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Protect units from moisture damage.

1.07 FIELD CONDITIONS

A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.01 CABINETS

A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI/AWMAC/WI Architectural Woodwork Standards for Premium Grade.

B. Cabinets:
1. Cabinet Design Series: As indicated on the Drawings.
2. Adjustable Shelf Loading: 50 lbs. per sq. ft..
   a. Deflection: L/144.
3. Cabinet Style: Flush overlay.
4. Cabinet Doors and Drawer Fronts: Flush style.
5. Drawer Side Construction: Lock-jointed and nailed.
6. Drawer Construction Technique: Lock shoulder joints.

2.02 WOOD-BASED COMPONENTS

A. Wood fabricated from old growth timber is not permitted.

B. Provide sustainably harvested wood, certified or labeled as specified in Section 01600 (01 60 00).

2.03 LAMINATE MATERIALS

A. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

B. Provide specific types as scheduled.
1. Horizontal Surfaces: HGS, 0.048 inch (1.22 mm) nominal thickness, colors as scheduled, finish as scheduled.
2. Vertical Surfaces: VGS, 0.028 inch (0.71 mm) nominal thickness, colors as scheduled, finish as scheduled.

C. Thermo-fused melamine laminate for cabinet interiors.

D. Laminate Backer: BKL, 0.020 inch (0.51 mm) nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

2.04 COUNTERTOPS

A. Plastic Laminate Countertops: Medium density fiberboard substrate covered with HPDL, conventionally fabricated and self-edge banded.

2.05 ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.

B. Fasteners: Size and type to suit application.

C. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel, or chrome-plated finish in exposed locations.

D. Concealed Joint Fasteners: Threaded steel.

E. Grommets: Standardplastic grommets for cut-outs, in color as indicated.
1. Products: Doug Mockett and Company, Inc.: www.mockett.com

2.06 HARDWARE

A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.

B. Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, polished chrome, or satin chrome finish, for nominal 1 inch (25 mm) spacing adjustments.

C. Adjustable Shelf Supports: Standard back-mounted system using surface mounted metal shelf standards and coordinated cantilevered shelf brackets, satin chrome finish, for nominal 1 inch (25 mm) spacing adjustments.

D. Drawer and Door Pulls:
1. Finish; SN: Brushed Satin Nichol
2. Product:Liberty Hardware Manufacturing Corporation, 314 South Chimney Rock Road, Greensboro, NC, 800.542.3789.
3. # P84729-SN-C (96mm: c-c)
4. Refer drawings for mounting locations.

E. Cabinet Locks: Keyed cylinder, jamb lock locations, Provided by Hardware Supplier.
1. Refer to Hardware Schedule and the drawings, for products for size and location.

F. Drawer Slides:
1. Type: Full extension.
2. Static Load Capacity: Commercial grade.
3. Mounting: Side mounted.
4. Stops: Integral type.
5. Features: Provide self closing/stay closed type.
6. Products:
   a. Accuride International, Inc: www.accuride.com.
   b. Grass America Inc: www.grassusa.com.
   c. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

G. Hinges: European style concealed self-closing type, steel with satin finish.
1. Products:
   a Grass America Inc: www.grassusa.com.
   b. Julius Blum, Inc: www.blum.com.
   c. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.07 FABRICATION

A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.

B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet (600 mm) from sink cut-outs.
1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.
2. Cap exposed plastic laminate finish edges with material of same finish and pattern.

E. Mechanically fasten back splash to countertops as recommended by laminate manufacturer at 16 inches (400 mm) on center.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify adequacy of backing and support framing.

B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.

B. Use fixture attachments in concealed locations for wall mounted components.

C. Use concealed joint fasteners to align and secure adjoining cabinet units.

D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch (1 mm). Do not use additional overlay trim for this purpose.

E. Secure cabinets to floor using appropriate angles and anchorages.

3.03 ADJUSTING

A. Adjust installed work.

B. Adjust moving or operating parts to function smoothly and correctly.

3.04 CLEANING

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION

SECTION 06415 - QUARTZ COUNTERTOPS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Countertops for architectural cabinetwork.

1.02 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2012.

B. ISSFA-2 - Classification and Standards for Solid Surfacing Material; International Solid Surface Fabricators Association; 2001 (2007).

C. MIA (DSDM) - Dimensional Stone Design Manual; VII, 2007.

D. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

E. PS 1 - Structural Plywood; 2009.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Specimen warranty.

C. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other sections.

D. Verification Samples: For each finish product specified, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

E. Test Reports: Chemical resistance testing, showing compliance with specified requirements.

F. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.

1.04 QUALITY ASSURANCE

A. Fabricator Qualifications: Same fabricator as for cabinets on which tops are to be installed.

B. Installer Qualifications: Fabricator.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.06 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 COUNTERTOP ASSEMBLIES

A. Natural Quartz and Resin Composite Wall Panels: Sheet or slab of natural quartz and plastic resin over continuous substrate.
1. Flat Sheet Thickness: 1/2 inch (13 mm), 3/4 inch (19 mm) thick.
2. Natural Quartz and Resin Composite Sheets, Slabs and Castings: Complying with ISSFA-2 and NEMA LD 3; orthophalic polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
   a. Factory fabricate components to the greatest extent practical in sizes and shapes indicated; comply with the MIA Dimension Stone Design Manual.
   b. Surface Burning Characteristics: Flame spread 25, maximum; smoke developed 450, maximum; when tested in accordance with ASTM E84.
   c. Finish on Exposed Surfaces: Polished.
   d. Color and Pattern: As indicated on drawings.
   e. Manufacturers:
      1) Cambria: www.CambriaUSA.com

2.02 ACCESSORY MATERIALS

A. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4 inch (19 mm) thick; join lengths using metal splines.

B. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

2.03 FABRICATION

A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
1. Join lengths of tops using best method recommended by manufacturer.
2. Fabricate to overhang fronts and ends of cabinets as indicated on drawings.
3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.

B. Backsplash on Quartz countertops are not required.

C. Solid Surfacing: Fabricate tops up to 120 inches (3048 mm) long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.

D. Connections and final preparation to provide invisible joint conditions.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify ALEXANDER+KIENAST+SCHNITZ of unsatisfactory preparation before proceeding.

C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.

B. Attach quartz countertops using compatible adhesive.

3.04 TOLERANCES

A. Variation From Horizontal: 1/8 inch in 10 feet (3 mm in 3 m), maximum.

B. Offset From Wall, Countertops: 1/8 inch (3 mm) maximum; 1/16 inch (1.5 mm) minimum.

C. Field Joints: 1/8 inch (3 mm) wide, maximum.

3.05 CLEANING

A. Clean countertops surfaces thoroughly.

3.06 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

SECTION 06610 - GLASS FIBER AND RESIN FABRICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Prefinished polyester glass reinforced plastic sheets and adhered to unfinished gypsum wallboard.
1. Aluminum trim.

1.02 REFERENCE STANDARDS

A. ASTM D 256 -Izod Impact Strengths (ft #/in)

B. ASTM D 570 -Water Absorption (%)

C. ASTM D 638 -Tensile Strengths (psi) & Tensile Modulus (psi)

D. ASTM D 790 -Flexural Strengths (psi) & Flexural Modulus (psi)

E. ASTM D 2583- Barcol Hardness

F. ASTM D 5319 - Standard Specification for Glass-Fiber Reinforced Polyester Wall and Ceiling Panels.

G. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on specified component products.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Glass Fiber and Resin Fabrications:
1. Marlite; www.marlite.com. Specialties, Inc; Product Standard FRP:
2. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 MATERIALS

A. Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D 5319.
1. Coating: Multi-layer print, primer and finish coats or applied over-layer.
2. Dimensions:
   a. Thickness - 0.090 inch (2.29mm) nominal
   b. Width - 4'-0 (1.22m) nominal
   c. Length - [10'-0 (3.0m)][8'-0 (2.4m)][As indicated on the drawings] nominal
3. Tolerance:
   a. Length and Width: +/-1/8 inch (3.175mm)
   b. Square - Not to exceed 1/8 inch for 8 foot (2.4m) panels or 5/32 inch (3.96mm) for 10 foot (2.4m) panels

B. Properties: Resistant to rot, corrosion, staining, denting, peeling, and splintering.
1. Flexural Strength - 1.0 x 104 psi per ASTM D 790. (7.0 kilogram-force/square millimeter)
2. Flexural Modulus - 3.1 x 105 psi per ASTM D 790. (217.9 kilogram-force/square millimeter)
3. Tensile Strength - 7.0 x 103 psi per ASTM D 638. (4.9 kilogram-force/square millimeter)
4. Tensile Modulus - 1.6 x 105 psi per ASTM D 638. (112.5 kilogram-force/square millimeter)
5. Water Absorption - 0.72% per ASTM D 570.
6. Barcol Hardness (scratch resistance) of 35 55 as per ASTM D 2583.
7. Izod Impact Strength of 72 ft. lbs./in ASTM D 256

C. Back Surface: Smooth. Imperfections which do not affect functional properties are not cause for rejection.

2.03 FINISH

A. Color:
1. Standard FRP :
   a. 100 White

PART 3 EXECUTION

3.01 INSTALLATION

A. Install fabrications in accordance with design drawings and fabricator's instructions.

3.02 TOLERANCES

A. Maximum variation from true position: 1/4 inch (6 mm).

B. Maximum offset from true alignment: 1/8 inch (3 mm).

3.03 CLEANING

A. Clean fabrications in accordance with fabricator's instructions.

3.04 PROTECTION

END OF SECTION

SECTION 07212 - BOARD AND BATT INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Board insulation and integral vapor retarder at cavity wall construction and exterior wall behind all wall finish.

B. Batt insulation and vapor retarder in exterior wall, ceiling, and roof construction.

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REGISTERED ARCHITECT
JACK W. KIENAST
STATE OF TEXAS
SEALED

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

C. Batt insulation for filling perimeter window and door shim spaces and crevices in exterior wall and roof.

1.02 REFERENCE STANDARDS

A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2011be1.

B. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2012.

C. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2012.

D. ASTM D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics; 2006.

E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2012.

F. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2012.

G. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components; 2012.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

1.04 FIELD CONDITIONS

A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 APPLICATIONS

A. Insulation Inside Masonry Cavity Walls: Expanded polystyrene board.

B. Insulation in Wood Framed Walls: Batt insulation with integral vapor retarder.

C. Insulation in Wood Framed Ceiling Structure: Batt insulation with integral vapor retarder.

D. Insulation Above Lay-In Acoustical Ceilings: Batt insulation with no vapor retarder.

2.02 FOAM BOARD INSULATION MATERIALS

A. Expanded Polystyrene Board Insulation: ASTM C578, with the following characteristics:
1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
3. Complies with fire-resistance requirements specified as part of an exterior non-load-bearing exterior wall assembly when tested in accordance with NFPA 285.
4. Board Size: 48 x 96 inch (1220 x 2440 mm).
5. Board Thickness: 1-1/2 inches (38 mm).
6. Board Edges: Square.
7. Water Absorption: 4 percent by volume, maximum, when tested in accordance with ASTM D2842.
8. Board Density: 0.7 lb/cu ft (12 kg/cu m).
9. Compressive Resistance: 5 psi (35 kPa).
10. Thermal Conductivity (k factor) at 25 degrees F (-3.9 degrees C): 0.28 (0.48).
11. Manufacturers:
    a. AFM Corp: www.r-control.com.
    b. Diversifoam Products: www.diversifoam.com.
12. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Polyisocyanurate Board Insulation: Rigid cellular foam, complying with ASTM C1289, Type I, aluminum foil both faces; Class 1, non-reinforced foam core.
1. Flame Spread Index: 75 or less, when tested in accordance with ASTM E84.
2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
3. Compressive Strength: 16 psi (110 kPa)
4. Board Size: 48 x 96 inch (1220 x 2440 mm).
5. Board Thickness: 1-1/2 inch (37.5 mm).
6. Board Edges: Square.
7. Provide taper board insulation to provide slope indicated on drawings.
8. Completely cover insulation with 7/16" OSB protection board.
9. Manufacturers:
    a. Atlas Roofing Corporation; Energy Shield: www.atlasroofing.com.
    b. Dow Chemical Co: www.dow.com.
    c. GAF: www.gaf.com.
10. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.03 BATT INSULATION MATERIALS

A. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665: friction fit.
1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
3. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
4. Formaldehyde Content: Zero.
5. Thermal Resistance: R of 11.
6. Thickness: 3-1/2 inches.
7. Facing: Aluminum foil, flame spread 25 rated; one side.
8. Manufacturers:
    a. CertainTeed Corporation: www.certainteed.com.
    b. Johns Manville Corporation: www.jm.com.
    c. Owens Corning Corp: www.owenscorning.com.
9. Substitutions: See Section 01600 (01 60 00) - Product Requirements,

B. Mineral Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit; unfaced flame spread index of 0 (zero) when tested in accordance with ASTM E84.
1. Flame Spread Index: 25 or less, when tested in accordance with ASTM E84.
2. Smoke Developed Index: 450 or less, when tested in accordance with ASTM E84.
3. Formaldehyde Content: Zero.
4. Thermal Resistance: R of 19.
5. Thickness: 6 inches..
6. Facing: Aluminum foil, flame spread 25 rated; one side.
7. Manufacturers:
    a. CertainTeed Corporation: www.certainteed.com.
    b. Johns Manville Corporation: www.jm.com.
    c. Thermafiber, Inc: www.thermafiber.com.
    d. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.04 ACCESSORIES

A. Sheet Vapor Retarder: Black polyethylene film for above grade application, 20 mil (0.50 mm) thick.

B. Tape: Bright aluminum self-adhering type, mesh reinforced, 2 inch (50 mm) wide.

C. Insulation Fasteners: Impaling clip of unfinished steel with washer retainer and clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place.

D. Nails or Staples: Steel wire; electroplated, or galvanized; type and size to suit application.

E. Adhesive: Type recommended by insulation manufacturer for application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation and adhesive.

B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

3.02 BOARD INSTALLATION AT EXTERIOR WALLS

A. Adhere a 6 inch (150 mm) wide strip of polyethylene sheet over expansion joints with double beads of adhesive each side of joint.
1. Tape seal joints between sheets.
2. Extend sheet full height of joint.

B. Install boards horizontally on walls.
1. Place boards to maximize adhesive contact.
2. Install in running bond pattern.
3. Butt edges and ends tightly to adjacent boards and to protrusions.

C. Extend boards over expansion joints, unbonded to wall on one side of joint.

D. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

E. Place 6 inch (150 mm) wide polyethylene sheet at perimeter of wall openings, from adhesive vapor retarder bed to window and door frames. Tape seal in place to ensure continuity of vapor retarder and air seal.

F. Tape insulation board joints.

3.03 BATT INSTALLATION

A. Install insulation and vapor retarder in accordance with manufacturer's instructions.

B. Install in exterior roof spaces without gaps or voids. Do not compress insulation.

C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.

D. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.

E. Install with factory applied vapor retarder membrane facing warm side of building spaces. Lap ends and side flanges of membrane over framing members.

F. Tape insulation batts in place.

G. Tape seal butt ends, lapped flanges, and tears or cuts in membrane.

H. accousticalaccoAt wood framing, place vapor retarder on warm side of insulation by stapling at 6 inches (150 mm) on center. Lap and seal sheet retarder joints over member face.

I. Tape seal tears or cuts in vapor retarder.

J. Extend vapor retarder tightly to full perimeter of adjacent window and door frames and other items interrupting the plane of the membrane. Tape seal in place.

3.04 PROTECTION

A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

SECTION 07260 - WEATHER BARRIERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Water-Resistive Barrier: Under exterior wall cladding, over sheathing or other substrate; not air tight or vapor retardant.

B. Vapor Retarders: Materials to make exterior walls, joints between exterior walls and roof, and joints around frames of openings in exterior walls water vapor-resistant and air tight.

C. Air Barriers: Materials that form a system to stop passage of air through exterior walls, joints between exterior walls and roof, joints around frames of openings in exterior walls, and concrete floor planks.

1.02 DEFINITIONS

A. Weather Barrier: Assemblies that form either water-resistive barriers, air barriers, or vapor retarders.

B. Air Barrier: Air tight barrier made of material that is relatively air impermeable but water vapor permeable, both to the degree specified, with sealed seams and with sealed joints to adjacent surfaces. Note: For the purposes of this specification, vapor impermeable air barriers are classified as vapor retarders.

C. Vapor Retarder: Air tight barrier made of material that is relatively water vapor impermeable, to the degree specified, with sealed seams and with sealed joints to adjacent surfaces.
1. Water Vapor Permeance: For purposes of conversion, 57.2 ng/(Pa s sq m) = 1 perm.

D. Water-Resistive Barrier: Water-shedding barrier made of material that is moisture-resistant, to the degree specified, intended to be installed to shed water without sealed seams.

1.03 REFERENCE STANDARDS

A. ASTM D226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2009.

B. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension; 2006a.

C. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2011.

D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2012.

E. ASTM E2178 - Standard Test Method for Air Permeance of Building Materials; 2011.

F. ASTM C 920 Standard Specification for Elastomeric Joint Sealants

G. ASTM C 1305 Standard Test Method for Crack Bridging Ability ofLiquid-Applied Waterproofing Membrane

H. ASTM D 412 Standard Test Methods for Vulcanized Rubber andThermoplastic Elastomers - Tension

I. ASTM D 903 Standard Test Method for Peel and Stripping Strengthof Adhesive Bonds

J. ASTM D 4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers

K. ASTM E 96 Standard Test Methods for Water Vapor Transmissionof Materials.

L. ASTM E 283 Standard Test Method for Determining the Rate of AirLeakage Through Exterior Windows, Curtain Walls and Doorsunder Specified Pressure Differences across the Specimen

M. ASTM E 2178 Standard Test Method for Air Permeance of BuildingMaterials

N. ICC-ES AC212 - Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing; ICC Evaluation Service, Inc.; 2011.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on material characteristics.

C. Provide evidence of evaluation of Product by the Air BarrierAssociation of America (ABAA).

D. Manufacturer's Installation Instructions: Indicate preparation and installation methods.

1.05 FIELD CONDITIONS

A. Maintain temperature and humidity recommended by the materials manufacturers before, during and after installation.

PART 2 PRODUCTS

2.01 WEATHER BARRIER ASSEMBLIES

2.02 WATER-RESISTIVE BARRIER MATERIALS (NEITHER AIR BARRIER NOR VAPOR RETARDER)

A. Asphalt Felt: ASTM D226 Type I felt (No.15).

B. Installed over Air Barrier (House Wrap) on all exterior surfaces.

2.03 AIR BARRIER MATERIALS (WATER VAPOR PERMEABLE AND WATER-RESISTIVE)

A. Air Barrier Sheet, Mechanically Fastened:
1. Air Permeance: 0.004 cubic feet per minute per square foot (0.02 L/s/sq m), maximum, when tested in accordance with ASTM E2178.
2. Installed over all exterior sheating surfaces.
3. Products:
    a. DuPont Building Innovations; Tyvek CommercialWrap, Tyvek Wrap Caps, Tyvek Tape, and Tyvek Commercial Sealant: www.dupont.com.
    b. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Air Barrier Coating: Cold-fluid-applied, vapor permeable, elastomeric waterproofing membrane.
1. Material: Water-based polymer-modified bitumen.
    a. Spray-Grade: Barriseal-S pourable consistency, water-based, polymer-modified asphalt
2. Acceptable Substrates: Stated by manufacturer as suitable for installation on visibly damp surfaces and concrete that has hardened but is not fully cured ("green" concrete) without requiring a primer.
3. Adhesion to Paper and Glass Mat Faced Sheathing: Sufficient to ensure failure due to delamination of sheathing.
4. Dry Film Thickness: 20 mils (0.020 inch) (0.48 mm), minimum.
5. Air Permeance: 0.004 cubic feet per minute per square foot (0.02 L/s/sq m), maximum, when tested in accordance with ASTM E2178.
6. Water Vapor Permeance: 5 perms (287 ng/(Pa s sq m)), minimum, when tested in accordance with ASTM E96/E96M.
7. Ultraviolet and Weathering Resistance: Approved in writing by manufacturer for minimum of 4 months weather exposure.
8. Elongation: 300 percent, minimum, when tested in accordance with ASTM D412
9. Surface Burning Characteristics: Flame spread index of 25 or less, smoke developed index of 50 or less, when tested in accordance with ASTM E84.
10. Nail Sealability: Comply with requirements of ASTM D1970.
11. VOC Content: 25 g per L or less.
12. Code Acceptance: Comply with applicable requirements of ICC-ES Acceptance Criteria AC2 212.
13. Installed Product and Accessories shall exhibit an air leakage ratenot exceeding 0.02 L/s*m at 75 Pa (0.004 CFM/ft at 1.57 PSF)according to ASTM E 283. Air leakage shall not exceed this ratewhile Product and Accessories remain soundly adhered afterexposure to sustained and gust wind loading according to ASTM E330.
14. Products:
    a. Carlisle Coatings and Waterproofing, Inc.: Barritech-VP: www.carlisle-ccw.com.
15. Accessories
    a. Co-Spray: Barricure™ chloride-free liquid concentrate
    b. Transition Membrane: 40 mil thickness self-adhering flashing provided in rolls of various widths. .
    c. CCW-705 Air & Vapor Barrier Strips
    d. Reinforcing Fabric: DCH Reinforcing Fabric woven, white polyester provided in rolls of various widths.
    e. Sheathing Joint Treatment, 1.4 inch width Transition Membrane centered over joint and bonded to surface prepared with Contact Adhesive
    f. AB-151 Scrim centered over joint with Barriseal-R coveringscrim and filling joint
    g. 4" DCH Reinforcing Fabric centered over joint and encapsulatedin Barriseal-RE. Contact Adhesive
        1) CCW-702 OR CCW-702 LV Solvent-Based
        2) CCW-702 WB Water-Based
        3) CAV-GRIP™ Aerosol Spray
    h. Mastic: LM 800 XL solvent-based synthetic rubber
        1) Fill Compound, select either:
        2) CCW-703 V Trowel-Grade Polyurethane, 2-part
        3) CCW-201 Non-Slump Polyurethane, 2-part

C. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.04 SEALANTS

A. Joint Sealant, select either: CCW-201 non-sag, 2-part polyurethane or others as approved by Manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces and conditions are ready to accept the work of this section.

3.02 PREPARATION

A. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.

B. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

3.03 INSTALLATION

A. Install materials in accordance with manufacturer's instructions.

B. Water-Resistive Barriers: Install continuous barrier over surfaces indicated, with sheets lapped to shed water but with seams not sealed.

C. Air Barriers: Install continuous air tight barrier over surfaces indicated, with sealed seams and with sealed joints to adjacent surfaces.

D. Mechanically Fastened Sheets - On Exterior:
1. Install sheets shingle-fashion to shed water, with seams generally horizontal.
2. Overlap seams as recommended by manufacturer but at least 6 inches.
3. Overlap at outside and inside corners as recommended by manufacturer but at least 12 inches (305 mm).
4. For applications specified to be air tight, seal seams, laps, penetrations, tears, and cuts with self-adhesive tape; use only large-headed, gasketed fasteners recommended by the manufacturer.
5. Install water-resistive barrier over jamb flashings.
6. Install air barrier and vapor retarder UNDER jamb flashings.
7. Install head flashings under weather barrier.
8. At openings to be filled with frames having nailing flanges, wrap excess sheet into opening; at head, seal sheet over flange and flashing.

E. Coatings:
1. Prepare substrate in manner recommended by coating manufacturer; treat joints in substrate and between dissimilar materials as recommended by manufacturer.
2. Use flashing to seal to adjacent construction and to bridge joints.
3. Provide complete coverage without pinholes or voids. Applygreater thickness of Product as necessary to provide continuous coating over rough surfaces and irregularities.
4. Cured membrane thickness shall measure a minimum of 0.040 inch(40 mils).

F. Openings and Penetrations in Exterior Weather Barriers:
1. At openings to be filled with non-flanged frames, seal weather barrier to all sides of opening framing, using flashing at least 9 inches (230 mm) wide, covering entire depth of framing.
2. At head of openings, install flashing under weather barrier extending at least 2 inches (50 mm) beyond face of jambs; seal weather barrier to flashing.
3. At interior face of openings, seal gap between window/door frame and rough framing, using joint sealant over backer rod.
4. Service and Other Penetrations: Form flashing around penetrating item and seal to weather barrier surface.

3.04 FIELD QUALITY CONTROL

A. Do not cover installed weather barriers until required inspections have been completed.

3.05 PROTECTION

A. Do not leave materials exposed to weather longer than recommended by manufacturer.

B. Do not leave paper- or felt-based barriers exposed to weather for longer than one week.

END OF SECTION

SECTION 07445 - MINERAL FIBER REINFORCED CEMENTITIOUS PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fiber cement panels of the following types:
1. Surface colored and textured high density fiber cement panels.

1.02 REFERENCES

A. ASTM International (ASTM):
1. ASTM C 1185 - 08 Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards.
2. ASTM C 1186 - 08 Standard Specification for Flat Fiber-Cement Sheets.
3. ASTM E 84 - Surface Burning Characteristics of Building Materials.
4. ASTM E 136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 degree C.

B. Materials and Equipment Acceptance (MEA) - New York City Department of Buildings Division.

C. CCHD - Coding Center Heidelberg: Performance Test Report.

1.03 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Provide detailed drawings of non-standard applications of fiber cement materials which are outside the scope of the standard details and specifications provided by the manufacturer.

D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Minimum of 2 years experience with installation of similar products.

B. Color Evaluation: No change, 2000 hours of accelerated weathering with color evaluation, CCHD Performance Test Report.

C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1. Finish areas designated by Architect.
2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
3. Remodel mock-up area as required to produce acceptable work.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation in accordance with manufacturer's recommended guidelines.

B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.06 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.07 WARRANTY

A. Warranty: Manufacturer warrants that its products are manufactured in accordance with its applicable material specifications and are free from defects in materials and workmanship.
1. Only products that are installed and used in accordance with applicable manufacturer's instructions and specifications are warranted.
2. The warranty is applicable only to claims made in writing and received by the manufacturer within thirty days after the defect was discovered and within ten years after the date of the shipment of the product by the manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURER/SUPPLIER

A. Acceptable Manufacturer/Supplier: American Fiber Cement Corp.; 6901 S. Pierce St. Suite 260, Littleton, CO 80123. ASD. Toll Free Tel. (800) 888-8677 ext. 102. Tel: (303) 978-1199. Fax: (303) 978-0308. Email: danglada@afccladding.com. Web: http://www.americanfibercement.com.

B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.02 SURFACE COLORED AND TEXTURED HIGH DENSITY FIBER CEMENT PANELS

A. Product: Pictura as manufactured/supplied by American Fiber Cement Corp.
1. Application: Exterior.
2. Thickness: 7/16 inch (12 mm).
3. Finish: White, selected from manufactures standard colors thickness: 7/16 inch (12 mm).
4. Physical Characteristics: ASTM C1185, ASTM C1186, EN 12467 'Fiber-cement flat sheets'.
    a. Density Dry (EN 12467): 1650 kg/m3.
    b. Bending strength @ambient, perpendicular: 24.0 N/mm2.
    c. Bending strength @ ambient, parallel: 17.0 N/mm2.
    d. Modulus of elasticity: 15000 N/mm2.
    e. Maximum water absorption: 20 %.
    f. Moisture movement (30-90% mean): 1.0 mm/m.
    g. Thermal expansion coefficient: 10*10-6 m/mK.
    h. Thermal conductivity coefficient: 0.6 W/mK.
    i. Frost resistance: Frost resistant.
    j. Reaction to fire according to EN13501-1: A2; ASTM E84-Zero Flame Spread, and smoke developed of < 5; ASTM E136-passed.

2.03 MISCELLANEOUS CLADDING MATERIALS

A. Perforated Insect/Vermin Screen: Manufacturer's standard.

B. Building Wrap: AFCC Building Wrap complying with local codes for product and installation requirements.

C. Aluminum Joint Closures and Decorative Corner Profiles: Manufacturer's standard products as detailed. Maximum thickness of finishing profile to be 0.8 mm or 21 gauge.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions and approved submittals.

B. For exterior applications, comply with local codes and structural engineer's fastening calculations along with manufacturer's recommendations for fastener spacing.

3.04 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

SECTION 07551 - MODIFIED BITUMINOUS MEMBRANE ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Roofing membrane, conventional application.

B. Insulation, flat and tapered.

C. Vapor retarders.

D. Deck sheathing.

E. Base flashings.

F. Roofing cant strips, roofing expansion joints, roofing vents, and walkways.

1.02 REFERENCE STANDARDS

A. ASTM C 177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus; 2004.

B. ASTM C 726 - Standard Specification for Mineral Fiber Roof Insulation Board; 2005.

C. ASTM C 1396/C 1396M - Standard Specification for Gypsum Board; 2006a.

D. ASTM D 41 - Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing; 2005.

E. ASTM D 226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2006.

F. ASTM D 312 - Standard Specification for Asphalt Used in Roofing; 2000 (Reapproved 2006).

G. ASTM D 1227 - Standard Specification for Emulsified Asphalt Used as a Protective Coating for Roofing; 1995 (Reapproved 2007).

H. ASTM D 1863 - Standard Specification for Mineral Aggregate Used on Built-Up Roofs; 2005.

I. ASTM D 2178 - Standard Specification for Asphalt Glass Felt Used in Roofing and Waterproofing; 2004.

J. ASTM D 2626 - Standard Specification for Asphalt-Saturated and Coated Organic Felt Base Sheet Used in Roofing; 2004.

K. ASTM D 2822 - Standard Specification for Asphalt Roof Cement, Asbestos-Containing; 2005.

L. ASTM D 3909 - Standard Specification for Asphalt Roll Roofing (Glass Felt) Surfaced with Mineral Granules; 1997b (Reapproved 2004).

M. ASTM D 4897 - Standard Specification for Asphalt-Coated Glass-Fiber Venting Base Sheet Used in Roofing; 2001.

N. ASTM E 96/E 96M - Standard Test Methods for Water Vapor Transmission of Materials; 2005.

O. FM P7825 - Approval Guide; Factory Mutual Research Corporation; current edition.

P. FM DS 1-28 - Wind Design; Factory Mutual Research Corporation; 2007.

Q. NRCA ML104 - The NRCA Roofing and Waterproofing Manual; National Roofing Contractors Association; Fifth Edition, with interim updates.

R. Fire-Test-Response Characteristics: Provide roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
1. Fire-Resistance Ratings: ASTM E 119, for fire-resistance-rated roof assemblies of which roofing system is a part.

S. UL (RMSD) - Roofing Materials and Systems Directory; Underwriters Laboratories Inc.; current edition.

T. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data indicating membrane and bitumen materials, base flashing materials, insulation, vapor retarder, and surfacing.

C. Samples for Verification: Submit two samples 6 xs 6 inches in size illustrating insulation and coating.

D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

F. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, supplementary instructions given, and completed roofing installation.

G. Warranty: Submit manufacturer warranty and ensure forms have been completed in Green Bank NA's name and registered with manufacturer.

1.04 QUALITY ASSURANCE

A. Perform work in accordance with NRCA Roofing and Waterproofing Manual.
1. Maintain one copy on site.

B. Manufacturer Qualifications: Company specializing in manufacturing

ALEXANDER KIENAST SCHNITZ
ARCHITECTURE & INTERIOR DESIGN
13601 PRESTON ROAD, SUITE 107 WEST
DALLAS, TX 75240
P: 972.233.3506
F: 972.233.3525
Email: akstexas@akstexas.com
www.akstexas.com

REGISTERED ARCHITECT
JACK W. KIENAST
STATE OF TEXAS
SEALED

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT PRICING & CONSTRUCTION

All drawings & written materials appearing herein constitute original unpublished work & may not be duplicated, used or disclosed without written consent of ALEXANDER + KIENAST + SCHNITZ, LLC.

GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

907

the products specified in this section with minimum three years of documented experience.

C. Applicator Qualifications: Company specializing in performing the work of this section with minimum three years documented experience and approved by manufacturer.

1.05 PRE-INSTALLATION MEETING

A. Convene one week before starting work of this section.

B. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.

B. Store products in weather protected environment, clear of ground and moisture.

C. Protect foam insulation from direct exposure to sunlight.

1.07 PROJECT CONDITIONS

A. Coordinate the work with installation of associated counterflashings installed by other sections as the work of this section proceeds.

1.08 FIELD CONDITIONS

A. Do not apply roofing membrane during unsuitable weather.

B. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

C. Do not apply roofing membrane when ambient temperature is below 40 degrees F (5 degrees C) or above 110 degrees F (43 degrees C).

D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

1.09 WARRANTY

A. See Section 01780 (01 78 00) - Closeout Submittals, for additional warranty requirements.

B. Roofing installer shall correct defective Work within a two year period after Date of Substantial Completion. Refer to end of section for roofing installers warranty form covering work of this section, including membrane roofing, base flashing roof insulation, fasteners and vapor retarders for the specified warranty period.

C. Provide fifteen year manufacturer's material and labor warranty to cover failure to prevent penetration of water. A written warranty without monetary limitation signed by the roofing system manufacturer agreeing to promptly repair leaks in the roof membrane and bore flashings resulting from defects in materials or workmanship for the specified warranty period.

D. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Sheet and Bitumen Materials:
1. Johns Manville Corporation: www.jm.com.
   a. Basis for Design.
2. GAF Materials Corporation.
3. Owens Corning Fiberglass Corp..
4. Substitutions: See Section 01600 - Product Requirements.

B. Insulation:
1. Johns Manville Corporation: www.jm.com.
   a. Basis for Design.
2. GAF Materials Corporation: www.gaf.com.
3. Dow Chemical Co: www.dow.com.
4. Owens Corning Corp: www.owenscorning.com.
5. Rmax, Inc. 13524 Welch Road; Dallas, Texas 7524 .
6. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 ROOFING - CONVENTIONAL APPLICATION

A. Performance: System performance to be equal to Johns Manville, SBS Modified Bitumen Specification NO. 3CID or equal.

B. Modified Bituminous Roofing: Glass reinforces asphalt felt membrane, three ply plus base sheet, with insulation with vapor retarder and insulation.

C. Roofing System Design: Provide a roofing system that is identical to systems that have been successfully tested by a qualified testing and inspecting agency to resist uplift pressure calculated according to ASCE 7.
1. Corner Uplift Pressure: 33.4 p/sf
2. Perimeter Uplift Pressure: 30.6 p/sf
3. Field-of-Roof Uplift Pressure: 24.4 p/sf

D. Roofing Assembly Requirements:
1. Florida Building Code: FL 2848-R6 system W-5 to meet -45 psf or equivalence of 1-90, UL Class A
2. Insulation Thermal Value (R), minimum: 19 (3" thickness min.

E. Surfacing: Aggregate, Mineral surface cap sheet, and Emulsified asphalt coating where indicated on drawings.

F. Color: White

2.03 SHEET MATERIALS

A. Roofing Membrane Sheet: ASTM D 6162, Grade S, Type II, composite polyester- and glass-fiber-reinforced, SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified. Product: JM DynaPly

B. Roofing Membrane Cap Sheet: ASTM D 6162, Grade G, Type II, composite polyester- and glass-fiber-reinforced, SBS-modified asphalt sheet; granular surfaced; suitable for application method specified. Product: DynaKap FR

2.04 BASE FLASHING MATERIALS.

A. Backer Sheet: ASTM D 6162, Grade S, Type II, composite polyester- and glass-fiber-reinforced, SBS-modified asphalt sheet; smooth surfaced; suitable for application method specified. Product: DynaPly

2.05 AUXILIARY ROOFING MEMBRANE MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing membrane.

B. Mastic Sealant: As required by roofing manufacturer.

C. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roofing membrane components to substrate, tested by manufacturer for required pullout strength, and provided by the roofing system manufacturer. Product: UltraFast Fasteners and Plates.

D. Metal Flashing Sheet: Metal flashing sheet is specified in Section 07620 Sheet Metal Flashing and Trim.

E. Roofing Granules: Ceramic-coated roofing granules matching specified cap sheet, provided by roofing system manufacturer.

F. Miscellaneous Accessories: Provide all miscellaneous accessories recommended by roofing system manufacturer.

G. Dry Sheathing Paper: Clean Red rosin paper, unsaturated.

2.06 WALKWAY PADS

A. Mineral-granule-surfaced, reinforced modified asphalt composition, slip-resisting pads, manufactured as a traffic pad for foot traffic provided by roofing system manufacturer, with a pad size of 32 inch x 32 inch. Product: JM DynaTred Plus

2.07 COVER BOARD

A. Cover Board: High-density polyisocyanurate technology is bonded in-line to mineral-surfaced, fiber glass-reinforced facers, meet or exceed the requirements of ASTM C 1289, Type II, Class 4, Grades 1, 2 and 3. It has been classified by UL.

B. Product: JM Invlinsa Board 1/4"

2.08 ROOF INSULATION

A. Acceptable Insulation Types - Constant Thickness Application:

B. Minimum 2 layers of polyisocyanurate board.

C. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Product: JM ENRGY 3

D. Install no boards thicker than 1.5", install in multiple layers.

2.09 TAPER BOARD

A. Acceptable Insulation Types - Tapered Application:

B. Tapered Insulation: ASTM C 1289, provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches (1:48), unless otherwise indicated on drawings. Product: Tapered JM ENRGY 3

2.10 INSULATION ACCESSORIES

A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.Provide factory preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain.

B. Fabricate to slopes indicated. Product: Tapered Pre-Cut Cricket, Tapered Pre-Cut Miter, Tapered Fesco Edge Strip.

C. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and provided by roofing system manufacturer. Product: UltraFast Fasteners and Plates

D. Insulation Cant Strips: ASTM C 728, perlite insulation board. Product: FesCant Plus

2.11 BITUMINOUS MATERIALS

A. Bitumen: ASTM D 312 Type III, asphalt.
1. Use Type IV on cant strips and other high sloped surfaces.

B. Primer: ASTM D 41, asphalt type.

C. Roof Cement: ASTM D 2822, Type I, cutback asphalt type.

D. Emulsified Asphalt: ASTM D 1227; with fiber reinforcement other than asbestos (Type II).

2.12 DECK SHEATHING

A. Deck Sheathing: Plywood, fire-resistant type, 3/4 inch (8 mm) thick.

2.13 ACCESSORIES

A. Insulation Joint Tape: Glass fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials; 6 inches (150 mm) wide; self adhering.

B. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.
1. Length as required for thickness of insulation material and penetration of deck substrate.

C. Roofing Nails: Galvanized, hot dipped type, size and configuration as required to suit application.

D. Roof Insulation Vents: Aluminum, with perforated inner tube; protective cap and mounting flange.
1. Provide one each Jimco Model 9911 Roof Breather per 1000 sf.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces and site conditions are ready to receive work.

B. Verify deck is supported and secure.

C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.

D. Verify deck surfaces are dry and free of snow or ice.

E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips, nailing strips, and reglets are in place.

3.02 WOOD DECKING PREPARATION

A. Verify flatness and tightness of joints of wood decking. Fill knot holes with latex filler.

B. Seal joints of plywood with tape.

C. Confirm dry deck by moisture meter with 12 percent moisture maximum.

D. Conventional Application: Lay one ply of dry sheathing paper; lap edges 2 inches (50 mm). Lay base sheet; lap edges 4 inches (100 mm). Nail laps 6 inches (150 mm) on center. Nail the field area at 12 inches (300 mm) on center staggered.

3.03 INSULATION INSTALLATION - CONVENTIONAL APPLICATION

A. Ensure vapor retarder is clean and dry, continuous, and ready for application of roofing system.

B. Attachment of Insulation:
1. Mechanically fasten first layer of insulation to deck in accordance with roofing manufacturer's instructions and Factory Mutual requirements.
2. Embed second layer of insulation into flood coat mopping of hot bitumen in accordance with roofing and insulation manufacturers' instructions.

C. Lay subsequent layers of insulation with joints staggered minimum 6 inch (150 mm) from joints of preceding layer.

D. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.

E. Apply 7/16" exposure I OSB protection board on top layer of insulation, mechanically fastened through insulation to wood deck beneath.

F. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.

G. Tape joints of insulation in accordance with roofing and insulation manufacturers' instructions.

H. At roof drains, use factory-tapered boards to slope down to roof drains over a distance of 18 inches (450 mm).

I. Do not apply more insulation than can be covered with membrane in same day.

3.04 MEMBRANE APPLICATION

A. Equiviscous Temperature (EVT) at Point of Application: In accordance with NRCA recommendations.

B. Lay base sheet, coated side down. Lap sides 2 inches (50 mm); lap ends 6 inches (150 mm).
1. Other Applications: Lay in bitumen mopped at 46 lb/square (kg/sq m).

C. Apply membrane plies, weather lap edges and ends, and mop with 46 lb/square (198 kg/100 sq m) of bitumen per ply. Apply plies 2 on 2 in same direction.

D. Apply smooth, free from air pockets, wrinkles, fish-mouths, or tears.

E. At end of day's operation, install two plies membrane and bitumen glaze coat for cut-off. Glaze exposed felts. Remove cut-off before resuming roofing.

F. At intersections with vertical surfaces:
1. Extend membrane and base sheet over cant strips and up a minimum of 12 inches (300 mm) onto vertical surfaces.
2. Mop on base flashing of two additional plies of felt and one ply of base flashing material.
3. Secure base flashing to nailing strips at 4 inches (100 mm) on center.
4. Run base flashing over top of wall beneath metal coping, refer drawings for details.

G. At gravel stops, extend membrane and base sheet under gravel stop and to the outside face of the wall.

H. Around roof penetrations, mop in and seal flanges and flashings with two additional plies of felt.

I. Install one roof vent per 1,000 sq ft (93 sq m) or part thereof, of roof area.

J. Coordinate installation of roof drains, sumps, and curbs and related flashings.

3.05 FIELD QUALITY CONTROL

A. See Section 01400 (01 40 00) - Quality Requirements, for general requirements for field quality control and inspection.

B. Field testing will be performed to:
1. Ascertain bitumen quantities placed.
2. Take and evaluate test cuts of installed membrane.

C. Require site attendance of roofing and insulation material manufacturers daily during installation of the Work.

3.06 CLEANING

A. Remove bituminous markings from finished surfaces.

B. In areas where finished surfaces are soiled by bitumen or other source of soiling caused by work of this section, consult manufacturer of surfaces for cleaning advice and conform to their documented instructions.

C. Repair or replace defaced or damaged finishes caused by work of this section.

3.07 PROTECTION

A. Protect installed roofing and flashings from construction operations.

B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

3.08 ROOFING INSTALLER'S WARRANTY

A. WHEREAS <NAME> of <ADDRESS>, herein called the "Roofing Installer," has performed roofing and associated work ("work") on the following project:
1. Owner:
2. Address:
3. Building Name / Type:
4. Address:
5. Area of Work:
6. Acceptance Date:
7. Warranty Period:
8. Expiration Date:

B. AND WHEREAS Roofing Installer has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period,

C. NOW THEREFORE Roofing Installer hereby warrants, subject to terms and conditions herein set forth, that during Warranty Period, he will, at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work and as are necessary to maintain said work in a watertight condition.

D. This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by;
   a. lightning;
   b. peak gust wind speed exceeding 90 mph;
   c. fire;
   d. failure of roofing system substrate, including cracking, settlement, excessive deflection, deterioration, and decomposition;
   e. faulty construction of parapet walls, copings, chimneys, skylights, vents, equipment supports, and other edge conditions and penetrations of the work;
   f. vapor condensation on bottom of roofing; and
   g. activity on roofing by others, including construction contractors, maintenance personnel, other persons, animals, whether authorized or unauthorized by Owner.
2. When work has been damaged by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Installer and until cost and expense therefore has been paid by Owner or by another responsible party so designated.
3. The Roofing Installer is responsible for damage to work covered by this Warranty but is not liable for consequential damages to building or building contents, resulting from leaks or faults or defects of work.
4. During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Installer, including cutting, patching, and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void on date of said alterations, but only to the extent said alterations affect work covered by this Warranty. If Owner engages Roofing Installer to perform said alterations, Warranty shall not become null and void, unless Roofing Installer, before starting work, shall have notified Owner in writing, showing reasonable cause for claim, that said alterations would likely damage or deteriorate work, thereby reasonably justifying a limitation or termination of this Warranty.
5. During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray-cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void on date of said change, but only to the extent said change affects work covered by this Warranty.
6. The Owner shall promptly notify the Roofing Installer of observed, known, or suspected leaks, defects, deterioration and shall afford reasonable opportunity for Roofing installer to inspect work and to examine evidence of such leaks, defects, or deterioration.
7. This Warranty is recognized to be the only warranty of Roofing Installer on said work and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to Owner in cases of roofing failure. Specifically, this Warranty shall not operate to relieve Roofing Installer of responsibility for performance of original work according to requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owner's General Contractor.

E. IN WITNESS THEREOF, this instrument has been duly executed this <DAY> day of <MONTH>, 19<YEAR>.
1. Authorized Signature:
2. Name:
3. Title:

END OF SECTION

SECTION 07620 - SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fabricated sheet metal items, including flashings, counterflashings, gutters, downspouts, and sheet metal roofing.

1.02 REFERENCE STANDARDS

A. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels; 2002.

B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2011.

C. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2010.

D. ASTM B32 - Standard Specification for Solder Metal; 2008.

E. ASTM D226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2009.

F. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free; 2007 (Reapproved 2012)e1.

G. SMACNA (ASMM) - Architectural Sheet Metal Manual; Sheet Metal and Air Conditioning Contractors' National Association; 2003.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.

C. Samples: Submit two samples illustrating metal finish color.

1.04 QUALITY ASSURANCE

A. Perform work in accordance with SMACNA Architectural Sheet Metal Manual requirements and standard details, except as otherwise indicated.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.

B. Prevent contact with materials that could cause discoloration or staining.

PART 2 PRODUCTS

2.01 SHEET MATERIALS

A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 0.02 inch (0.6 mm) thick base metal, shop pre-coated with PVDF coating.
1. Modified Silicone Polyester Coating: Pigmented Organic Coating System, AAMA 2603; baked enamel finish system.
2. Color: As selected by ALEXANDER+KIENAST+SCHNITZ from manufacturer's standard colors.

2.02 ACCESSORIES

A. Fasteners: Same material and finish as flashing metal, with soft neoprene washers.

B. Underlayment: ASTM D226, organic roofing felt, Type I ("No. 15").

C. Slip Sheet: Rosin sized building paper.

D. Primer: Zinc chromate type.

E. Sealant: Type specified in Section 07900 (07 90 05).

F. Plastic Cement: ASTM D4586, Type I.

G. Reglets: Surface mounted type, galvanized steel; face and ends covered with plastic tape.

H. Solder: ASTM B32; Sn50 (50/50) type.

2.03 FABRICATION

A. Form sections true to shape, accurate in size, square, and free from distortion or defects.

B. Form pieces in longest possible lengths.

C. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.

D. Form material with flat lock seams, except where otherwise indicated. At moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.

E. Fabricate corners from one piece with minimum 18 inch (450 mm) long legs; seam for rigidity, seal with sealant.

F. Fabricate vertical faces with bottom edge formed outward 1/4 inch (6 mm) and hemmed to form drip.

G. Fabricate flashings to allow toe to extend 2 inches (50 mm) over roofing gravel. Return and brake edges.

2.04 GUTTER AND DOWNSPOUT FABRICATION

A. Gutters: SMACNA Architectural Sheet Metal Manual, Rectangular profile.

B. Downspouts: Rectangular profile.

C. Gutters and Downspouts: Size for rainfall intensity determined by a storm occurrence of 1 in 5 years in accordance with SMACNA Architectural Sheet Metal Manual.

D. Accessories: Profiled to suit gutters and downspouts.
1. Anchorage Devices: In accordance with SMACNA requirements.
2. Downspout Supports: Brackets.

E. Splash Pads: Precast concrete type, of size and profiles indicated; minimum 3000 psi (21 MPa) at 28 days, with minimum 5 percent air entrainment.

F. Downspout Boots: Steel.

G. Seal metal joints.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.

B. Verify roofing termination and base flashings are in place, sealed, and secure.

3.02 INSTALLATION

A. Conform to drawing details.
1. Counter Flashing: SMACNA Architectural Sheet Metal Manual, Detail 4-4C.
2. Roof Penetration Flashing: SMACNA Architectural Sheet Metal Manual, Detail 4-14B.

B. Insert flashings into reglets to form tight fit. Secure in place with lead wedges. Pack remaining spaces with lead wool. Seal flashings into reglets with sealant.

C. Secure flashings in place using concealed fasteners.

D. Apply plastic cement compound between metal flashings and felt flashings.

E. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.

F. Solder metal joints for full metal surface contact. After soldering, wash metal clean with neutralizing solution and rinse with water.

G. Secure gutters and downspouts in place using concealed fasteners.

H. Connect downspouts to downspout boots. Grout connection watertight.

I. Set splash pads under downspouts.

END OF SECTION

SECTION 07840 - FIRESTOPPING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Firestopping systems.

B. Firestopping of all joints and penetrations in fire-resistance rated and smoke-resistant assemblies, whether indicated on drawings or not, and other openings indicated.

1.02 REFERENCE STANDARDS

A. ASTM E814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops; 2011a.

B. ITS (DIR) - Directory of Listed Products; Intertek Testing Services NA, Inc.; current edition.

C. FM 4991 - Approval of Firestop Contractors; Factory Mutual Research Corporation; 2001.

D. FM P7825 - Approval Guide; Factory Mutual Research Corporation; current edition.

E. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; www.aqmd.gov.

F. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.

C. Product Data: Provide data on product characteristics, performance ratings, and limitations.

1.04 QUALITY ASSURANCE

A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
1. Listing in the current-year classification or certification books of UL, FM, or ITS (Warnock Hersey) will be considered as constituting an acceptable test report.

B. Installer Qualifications: Company specializing in performing the work of this section and:
1. Approved by Factory Mutual Research under FM Standard 4991, Approval of Firestop Contractors, or meeting any two of the following requirements:.

1.05 FIELD CONDITIONS

A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation. Maintain minimum temperature before, during, and for 3 days after installation of materials.

B. Provide ventilation in areas where solvent-cured materials are being installed.

PART 2 PRODUCTS

2.01 FIRESTOPPING - GENERAL REQUIREMENTS

A. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Type required for tested assembly design.

2.02 FIRESTOPPING SYSTEMS

A. Firestopping: Any material meeting requirements.
1. Fire Ratings: Use any system listed by UL or tested in accordance with ASTM E814 that has F Rating equal to fire rating of penetrated assembly and T Rating Equal to F Rating and that meets all other specified requirements.

2.03 MATERIALS

A. Firestopping Sealants: Provide only products having lower volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1168.

B. Elastomeric Silicone Firestopping: Single component silicone elastomeric compound and compatible silicone sealant; conforming to the following:

C. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Type required for tested assembly design.

END OF SECTION

SECTION 07900 - JOINT SEALERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sealants and joint backing.

1.02 REFERENCE STANDARDS

A. ASTM C834 - Standard Specification for Latex Sealants; 2010.

B. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications; 2012.

C. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2011.

D. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2011a.

E. ASTM D1056 - Standard Specification for Flexible Cellular Materials—Sponge or Expanded Rubber; 2007.

F. ASTM D1667 - Standard Specification for Flexible Cellular Materials—Poly(Vinyl Chloride) Foam (Closed-Cell); 2005 (Reapproved 2011).

G. ASTM D2628 - Standard Specification for Preformed Polychloroprene Elastomeric Joint Seals for concrete Pavements; 1991 (Reapproved 2011).

H. BAAQMD 8-51 - Bay Area Air Quality Management District Regulation 8, Rule 51, Adhesive and Sealant Products; www.baaqmd.gov; current edition.

I. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; www.aqmd.gov.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data indicating sealant chemical characteristics.

C. Manufacturer's Installation Instructions: Indicate special procedures.

1.04 QUALITY ASSURANCE

A. Maintain one copy of each referenced document covering installation requirements on site.

B. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum 5 years documented experience.

C. Applicator Qualifications: Company specializing in performing the work of this section with minimum 5 years experience.

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REGISTERED ARCHITECT
JOE W. KIENAST
STATE OF TEXAS

SEALED

REVISIONS

DATE:
01.29.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

1.05 MOCK-UP

A. Provide mock-up of sealant joints in conjunction with window under provisions of Section 01400 (01 40 00) and Section 04810..

B. Construct mock-up with specified sealant types and with other components noted.

C. Locate where directed.

D. Mock-up may not remain as part of the Work.

1.06 FIELD CONDITIONS

A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

1.07 COORDINATION

A. Coordinate the work with all sections referencing this section.

1.08 WARRANTY

A. See Section 01780 (01 78 00) - Closeout Submittals, for additional warranty requirements.

B. Installer Warranty: Correct defective work within a five year period after Date of Substantial Completion.

C. Warranty: Include coverage for installed sealants and accessories which fail to achieve airtight seal, exhibit loss of adhesion or cohesion, or do not cure.

D. Manufacturer's Warranty: Installed material 20 years

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Silicone Sealants: General purpose and as indicated.
1. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
2. Dow Corning; www.dowcorning.com.
3. Tremco Commercial Sealants and Waterproofing; www.tremcosealants.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Polyurethane Sealants: Exterior concealed weatherproofing applications and limited interior applications only.
1. Bostik Inc: www.bostik-us.com.
2. Pecora Corporation: www.pecora.com.
3. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

C. Polysulfide Sealants: Continuous water immersion applications only.
1. Pecora Corporation: www.pecora.com.
2. BASF Construction Chemicals-Building Systems: www.chemrex.com.
3. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

D. Acrylic Sealants: Interior, concealed use only.
1. Tremco Commercial Sealants and Waterproofing: www.tremcosealants.com.
2. BASF Construction Chemicals, Inc: www.chemrex.com.
3. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

E. Butyl Sealants: Limited concealed weatherproofing applications only.
1. Bostik Inc: www.bostik-us.com.
2. Pecora Corporation: www.pecora.com.
3. Tremco Commercial Sealants and Waterproofing; www.tremcosealants.com..
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

F. Acrylic Emulsion Latex Sealants: Interior concealed use only
1. Bostik Inc: www.bostik-us.com.
2. Pecora Corporation: www.pecora.com.
3. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

G. Preformed Compressible Foam Sealers:
1. EMSEAL Joint Systems, Ltd: www.emseal.com.
2. Sandell Manufacturing Company, Inc. www.sandellmfg.com.
3. Dayton Superior Corporation: www.daytonsuperior.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 SEALANTS

A. Sealants and Primers - General: Provide only products having lower volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1168.

B. Provide only products having lower volatile organic compound (VOC) content than required by South Coast Air Quality Management District Rule No.1168.

C. Type S-1 - General Purpose Exterior Sealant: Silicone; ASTM C 920, Grade NS, Class 50, Uses M, G, and A; single component.
1. Color: Custom.
2. Basis of Design Product: DOW CORNING® 795 SILICONE BUILDING SEALANT manufactured by Dow Corning Corporation.
3. Applications: Use for:
   a. Control, expansion, and soft joints in masonry.
   b. Joints between concrete and other materials.
   c. Joints between metal frames and other materials.
   d. General building joints at the exterior.
   e. Other exterior joints for which no other sealant is indicated.

D. Type S-1a - General Purpose Exterior Sealant: Silicone, dirt and mildew resistant; ASTM C 920, Grade NS, Class 50, Uses M, G, and A; single component.
1. Color: Custom.
2. Basis of Design Product: Dow 756 SMS Building Sealant manufactured by Dow Corning Corporation www.dowcorning.com.
3. Applications: Use for:
   a. Control, expansion, and soft joints in masonry.
   b. Joints between concrete and other materials.
   c. Joints between metal frames and other materials.
   d. General building joints at the exterior.
   e. Other exterior joints for which no other sealant is indicated.

E. Type S-2 - General Purpose Interior Sealant: One part Latex Cure RTV Silicone ; ASTM C 920, Grade NS, Class 50, single component, paintable.
1. Color: Colors as selected.
2. Basis of Design Product: DOW CORNING® PAINTABLE SEALANT manufactured by Dow Corning Corporation.
3. Applications: Use for:
   a. Interior wall and ceiling control joints.
   b. Joints between door and window frames and wall surfaces.
   c. Other interior joints for which no other type of sealant is indicated.

F. Type S-3 - Bathtub /Sink / Plumbing Fixture / Tile Sealant: White, or Clear silicone; ASTM C 920, Uses I, M and A; single component, mildew resistant.
1. Basis of Design Product: DOW CORNING® 786 SILICONE MILDEW RESISTANT SEALANT manufactured by Dow Corning.
2. Applications: Use for:
   a. Joints between plumbing fixtures and Bath floor and wall surfaces / Tile .
   b. Joints between kitchen and bath countertops and wall surfaces.

G. Type S-6 - Interior Floor Joint Sealant: Polyurethane, self-leveling; ASTM C920, Grade P, Class 25, Uses T, M and A; single component.
1. Approved by manufacturer for wide joints up to 1-1/2 inches.
2. Color: Colors as selected.
3. Basis of Design Product: SL-1 manufactured by Sonneborn a BASF company.
4. Applications: Use for:
   a. Expansion joints in floors.

H. Type S-7 - Sealant for Continuous Water Immersion: Polysulfide; ASTM C920, Grade NS, Class 25, Uses I, M, and A; approved by manufacturer for continuous water immersion; single component.
1. Color: Colors as selected.
2. Basis of Design Product: Sonolastic Polysulfide manufactured by Sonneborn a BASF company.
3. Applications: Use for:
   a. Joints in fountain pool.
   b. Aquarium joints.

I. Type S-4 - Concrete Paving Joint Sealant: Silicone, self-leveling; ASTM D5893-96, Class 100/50, Uses T, I, M and A; single component.
1. Color: Color as selected.
2. Basis of Design Product: DOW CORNING® 890-SL manufactured by Dow Corning Corporation.
3. Applications: Use for:
   a. Joints in sidewalks and vehicular paving.

J. Type S-5 - Butyl Sealant: ASTM C 311, ASTM C 920, ASTM C 1085, Grade NS, Class 12 1/2, Uses NT, O; single component, solvent release, non-skinning, non-sagging.
1. Color: Colors as selected.
2. Basis of design Product: Tremco Butyl Sealant manufactured by Tremco Commercial Sealants and Waterproofing.
3. Movement Capability: Plus and minus 12-1/2 percent.
4. Service Temperature Range: -13 to 180 degrees F (-25 to 82 degrees C).
5. Shore A Hardness Range: 10 to 30.
6. Applications: Use for:
   a. Bedding Thresholds.
   b. Limited, concealed metal to metal flashing and gutter joints.

K. Type S-6 - Nonsag Polyurethane Sealant: ASTM C920, Grade NS, Class 25, Uses NT, I, M, A, G, O; single component, chemical curing, non-staining, non bleeding, non-sagging type.
1. Color: Colors as selected.
2. Product: NP-1 manufactured by Sonneborn.
3. Movement Capability: Plus and minus 25 percent.
4. Service Temperature Range: -40 to 180 degrees F (-40 to 82 degrees C).
5. Shore A Hardness Range: 20 to 35.
6. Applications: Use for:
   a. Exterior concealed weather proofing.

2.03 ACCESSORIES

A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.

B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.

C. Joint Backing: Round foam rod compatible with sealant; ASTM D 1667, closed cell PVC; oversized 30 to 50 percent larger than joint width.

D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

B. Verify that joint backing and release tapes are compatible with sealant.

3.02 PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.

B. Clean and prime joints in accordance with manufacturer's instructions.

C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

D. Protect elements surrounding the work of this section from damage or disfigurement.

3.03 INSTALLATION

A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Perform installation in accordance with ASTM C1193.

C. Perform acoustical sealant application work in accordance with ASTM C919.

D. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.

E. Install bond breaker where joint backing is not used.

F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.

G. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.

H. Tool joints concave.

I. Precompressed Foam Sealant: Do not stretch; avoid joints except at corners, ends, and intersections; install with face 1/8 to 1/4 inch (3 to 6 mm) below adjoining surface.

J. Compression Gaskets: Avoid joints except at ends, corners, and intersections; seal all joints with adhesive; install with face 1/8 to 1/4 inch (3 to 6 mm) below adjoining surface.

3.04 CLEANING

A. Clean adjacent soiled surfaces.

3.05 PROTECTION

A. Protect sealants until cured.

3.06 SCHEDULE

A. Exterior Joints for Which No Other Sealant Type is Indicated: Type S-1; colors as selected.

B. Control and Expansion Joints in Paving: Type S-4.

C. Control, Expansion, and Soft Joints in Masonry, and Between Masonry and Adjacent Work: Type S-1.

D. Joints Between Exterior Metal Frames and Adjacent Work (except masonry): Type S-1.

E. Under Exterior Door Thresholds: Type S-5.

F. Interior Joints for Which No Other Sealant is Indicated: Type S-2; colors as selected.

G. Joints Between Plumbing Fixtures and Walls and Floors, and Between Countertops and Walls: Type S-3.

END OF SECTION

SECTION 08120 - ALUMINUM DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Flush aluminum doors with aluminum faces.

B. Glazed interior aluminum doors.

C. Aluminum door frames for doors specified in this section.

D. Accessories, including louvers, fasteners, and brackets.

1.02 REFERENCE STANDARDS

A. AAMA 609 - Voluntary Guide Specification for Cleaning and Maintenance of Architectural Anodized Aluminum; American Architectural Manufacturers Association; 2009.

B. AAMA 701/702 - Voluntary Specifications for Pile Weatherstripping and Replaceable Fenestration Weatherseals; American Architectural Manufacturers Association; 2011.

C. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels; American Architectural Manufacturers Association; 2002.

D. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2012.

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2012.

F. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes [Metric]; 2012.

G. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association; 2012.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Include elevations of each opening type.

C. Selection Samples: Complete set of color and finish options, using actual materials, for ALEXANDER+KIENAST+SCHNITZ's selection.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Firm with documented experience in installing components of the types specified.

B. Fire-Rated Frames: Tested in accordance with NFPA 252, listed and labeled by a testing agency acceptable to authorities having jurisdiction.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver aluminum components in manufacturer's standard protective packaging, palleted, crated, or banded together.

B. Inspect delivered components for damage and replace. Repaired components will not be accepted.

C. Store components under cover in manufacturer's packaging until installation.

1.06 FIELD CONDITIONS

A. Do not begin installation of interior aluminum components until space has been enclosed and ambient thermal conditions are being maintained at levels consistent with final project requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. : RACO Interior Products, Inc., www.racointeriors.com.

B. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

C. Glazed Interior Aluminum Doors:

2.02 DOORS AND FRAMES

A. Flush Doors with Aluminum Faces: Aluminum internal framing and faces; no steel components.
1. Thickness: 1-3/4 inches (44 mm).
2. Finish: Natural anodized.
3. Weatherstripping: Replaceable pile type; at jambs and head of exterior doors.

B. Glazed Aluminum Doors: Extruded aluminum tube frame, full glazed, with middle rail; factory glazed.
1. Thickness: 1-3/4 inches (44 mm).
2. Finish: Pigmented coating, manufacturer's standard type.

C. Door, Sidelight, and Transom Frames: Extruded aluminum hollow or C-shaped sections; no steel components.
1. Finish: Same as doors.
2. Weatherstripping: Replaceable pile type; at jambs and head.

D. Dimensions and Shapes: As indicated on drawings; dimensions shown are nominal.
1. Provide clearances as follows:
   a. Hinge and Lock Stiles: 0.125 inch (3.2 mm).
   b. Between Meeting Stiles: 0.25 inch (6.3 mm).
   c. At Top Rail and Bottom Rail: 0.125 inch (3.2 mm).

2.03 COMPONENTS

A. Flush Door Panels: Without visible seams on face.
1. Framing and Hardware Backup: Extruded aluminum tubing, 0.125 inch (3 mm) minimum thickness.
2. Top, Side, and Bottom Edges: Extruded aluminum cap.
3. Laminating Adhesive: Manufacturer's standard low-VOC materials.

B. Tubular Doors: Extruded aluminum tubing, 0.125 inch (3.17 mm) minimum thickness, with heavy-duty plated steel through bolts in rails, glazing stops, and glazing gaskets.

C. Frames: Extruded aluminum shapes, not less than 0.062 inch (1.6 mm) thick, reinforced at hinge and strike locations.
1. Corner Brackets: Extruded aluminum, fastened with stainless steel screws.
2. Trim: Extruded aluminum, not less than 0.062 inch (1.6 mm) thick, removable snap-in type without exposed fasteners.

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M), alloy 6063-T5 or alloy 6463-T5.

2.05 DOORS AND FRAMES

A. General
1. Fire and Smoke Rated Assemblies:
   a. Where fire-rated openings are scheduled or required by authorities having jurisdiction, provide fire-rated aluminum frames that have been tested and certified to meet the requirements of Neutral Pressure Fire Test of Door Assemblies for specified exposure by an agency acceptable to governing authorities.
   b. Provide labels permanently fastened on each fire rated frame and door that are within size limits established by NFPA and the testing authority.]
2. Interior Door Frames: RACO Solutions II fixed throat frames to accommodate wall thicknesses indicated on Drawings; ceiling height height system; with applied full face trim of 1-1/2 inch width.
   a. If indicated on the drawings provide fire rated frames to 20 minute rating complying with UL 10B, ASTM E152, and NFPA 252.
3. Interior OfficeFront Framing: RACO Solutions II OfficeFronts, fixed throat frames to accommodate wall thicknesses indicated on Drawings; ceiling height height system, with applied full face trim of1-1/2 inch width.
4. Swinging Aluminum and Glass Doors: RACO Series 550, wide stile doors, having square glazing stops, EPDM glazing gaskets, and having ADA compliant bottom rail.
   a. Provide non fire rated with adjustable bottom rails for field adjustment.
   b. If indicated on the drawings provide with 20 minute fire rated label, factory glazed with approved clear wireless.
   c. Provide with custom horizontal and vertical mullion pattern as indicated on Drawings
5. Sliding Aluminum and Glass Doors: Series 2000, Sliding Doors, complete with 2-1/16 inch stiles, 2-1/8 inch top rail, and 3-3/16 inch bottom rail.
   a. Provide sliding door track as indicated on drawings.

B. Tubular Aluminum Doors: Provide 1-3/4 in (44 mm) thick glazed doors using materials as follows:
1. Framing: Extruded aluminum tubing, 0.125 in (3.17 mm) minimum thickness, with heavy-duty plated steel through bolts in rails.
   a. Stile Width: Nominal 5 inches (125 mm).
   b. Bottom Stile Height: 10 inches to comply with ADA and ANSI 117.
2. Glazing: As specified in Section 08800 (08 80 00) - Glazing.

C. Aluminum Door Frames: Provide frames sized to fit wall thicknesses indicated on the drawings, in profiles indicated, and constructed from materials as follows:
1. Frame Members: Extruded aluminum shapes, not less than 0.062 inch (1.6 mm) thick, reinforced at hinge and strike locations.
2. Corner Brackets: Extruded aluminum, fastened with stainless steel screws.
3. Trim: Extruded aluminum, not less than 0.062 inch (1.6 mm) thick, removable snap-in type without exposed fasteners.
4. Replaceable Weatherstripping: AAMA 701/702 wool pile.

2.06 FINISHES

A. Factory finish extruded frame and door components so that all parts exposed to view upon completion of installation are uniform in finish and color. Exposed surfaces shall be free of scratches and other serious blemishes.

B. Factory Applied Paint Finish: Comply with AAMA(2603) 603.8 and AA-DAF-45, factory applied baked enamel coating.

C. Color as selected from manufacturer's full range by ALEXANDER+KIENAST+SCHNITZ.

D. Finish: Pigmented organic coating of not less than 0.8 mils (20 microns) thickness, conforming to requirements of AAMA 2603; color as selected from manufacturer's full range by ALEXANDER+KIENAST+SCHNITZ.

2.07 FABRICATION

A. Door sizes shown are nominal; provide standard clearances as follows:
1. Hinge and Lock Stiles: 0.125 inch (3.17 mm).
2. Between Meeting Stiles: 0.250 inch (6.34 mm).
3. At Top Rail and Bottom Rail: 0.125 inch (3.17 mm).

B. Aluminum frames: Sizes and contours as indicated on drawings.

2.08 ACCESSORIES

A. Replaceable Weatherstripping: AAMA 701/702 wool pile.

B. Fasteners: Aluminum, non-magnetic stainless steel, or other material warranted by manufacturer as non-corrosive and compatible with aluminum components.

C. Brackets and Reinforcements: Manufacturer's high-strength aluminum units where feasible, otherwise, non-magnetic stainless steel or steel hot-dip galvanized in compliance with ASTM A123/A123M.

D. Bituminous Coating: Cold-applied asphaltic mastic, compounded for 30-mil (0.76 mm) thickness per coat.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that wall surfaces and openings are ready to receive frames and are within tolerances specified in manufacturer's instructions.

B. Verify that frames installed by other trades for installation of doors of this section are in strict accordance with recommendations and approved shop drawings and within tolerances specified in manufacturer's instructions.

3.02 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and approved shop drawings.

B. Set frames plumb, square, level, and aligned to receive doors. Anchor frames to adjacent construction in strict accordance with manufacturer's recommendations and within specified tolerances.

C. Where aluminum surfaces contact metals other than stainless steel, zinc, or small areas of white bronze, protect from direct contact by painting dissimilar metal with heavy coating of bituminous paint.

D. Hang doors and adjust hardware to achieve specified clearances and proper door operation.

3.03 CLEANING

A. Upon completion of installation, thoroughly clean door and frame surfaces in accordance with AAMA 609.

B. Do not use abrasive, caustic, or acid cleaning agents.

3.04 PROTECTION

A. Protect products of this section from damage caused by subsequent construction until substantial completion.

B. Replace damaged or defective components that cannot be repaired to a condition indistinguishable from undamaged components.

END OF SECTION

SECTION 08211 - FLUSH WOOD DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Flush wood doors; flush configuration; fire rated and non-rated.

1.02 REFERENCE STANDARDS

A. AWI (QCP) - Quality Certification Program, www.awiqcp.org; current edition at www.awiqcp.org.

B. ICC (IBC) - International Building Code; 2012.

C. ITS (DIR) - Directory of Listed Products, Intertek Testing Services NA, Inc.; current edition.

D. NEMA LD 3 - High-Pressure Decorative Laminates; National Electrical Manufacturers Association; 2005.

E. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2013.

F. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

G. WDMA I.S.1-A - Architectural Wood Flush Doors; Window and Door Manufacturers Association; 2011.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements for submittal procedures.

B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.

C. Specimen warranty.

D. Samples: Submit two samples of door veneer, 12 by 12 inch (304 x 304 mm) in size illustrating wood grain, stain color, and sheen.

E. LEED Report: Submit for wood products made from sustainably harvested wood, salvaged and reused wood, wood fabricated from recovered timber, and locally-sourced wood, as specified in Section 01355 (01 35 15).

F. Warranty, executed in Green Bank NA's name.

1.04 QUALITY ASSURANCE

A. Maintain one copy of the specified door quality standard on site for review during installation and finishing.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
1. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.

C. Quality Certification: Provide AWI Quality Certification Program inspection report and quality certification of completed work.
1. Provide labels or certificates indicating that the work complies with requirements of AWS Grade or Grades specified.
2. Prior to delivery to the site provide shop drawings with certification labels.
3. Provide labels on each product when required by certification program.
4. Upon completion of installation provide certificate certifying that the installation and products meet the specified requirements.
5. Arrange and pay for inspections required for certification.
6. Replace, repair, or rework all work for which certification is refused.

D. Installed Fire Rated Door and Transom Panel Assembly: Conform to NFPA 80 for fire rated class as indicated.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Package, deliver and store doors in accordance with specified quality standard.

B. Accept doors on site in manufacturer's packaging. Inspect for damage.

C. Protect doors with resilient packaging sealed with heat shrunk plastic. Do not store in damp or wet areas; or in areas where sunlight might bleach veneer. Seal top and bottom edges with tinted sealer if stored more than one week. Break seal on site to permit ventilation.

1.06 WARRANTY

A. See Section 01780 (01 78 00) - Closeout Submittals for additional warranty requirements.

B. Interior Doors: Provide manufacturer's warranty for the life of the installation.

C. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. High Pressure Decorative Laminate Faced Doors:
1. Ampco Products, Inc: www.ampco.com.
2. Poncraft Door Co: www.poncraft.com.
3. VT Industries, Inc: www.vtindustries.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 DOORS AND PANELS

A. All Doors: See drawings for locations and additional requirements.
1. Quality Level: Custom Grade, Extra Heavy Duty performance, in accordance with WDMA I.S.1-A.
2. High Pressure Decorative Laminate Faced Doors: 5-ply unless otherwise indicated.

B. Interior Doors: 1-3/4 inches (44 mm) thick unless otherwise indicated; flush construction.
1. Provide solid core doors at all locations.
2. Fire Rated Doors: Tested to ratings indicated on drawings in accordance with International Building Code ("positive pressure"); UL or WH (iTS) labeled without any visible seals when door is open.
3. High pressure decorative laminate finish where indicated on drawings.

2.03 DOOR AND PANEL CORES

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated above.

B. Fire Rated Doors: Mineral core. Type FD, plies and faces as indicated above; with core blocking as required to provide adequate anchorage of hardware without through-bolting.

2.04 DOOR FACINGS

A. High Pressure Decorative Laminate Facing for Fire Doors: NEMA LD 3, SGF; color(s) as indicated on drawings; furniture finish.

B. High Pressure Decorative Laminate Facing for Non-Fire-Rated Doors: NEMA LD 3, HGS; color(s) as indicated; textured, low gloss finish.

C. Facing Adhesive: Type I - waterproof.

2.05 DOOR CONSTRUCTION

A. Fabricate doors in accordance with door quality standard specified.

B. Cores Constructed with stiles and rails:

C. Provide solid blocks at lock edge for hardware reinforcement.
1. Provide solid blocking for other throughbolted hardware.

D. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

E. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

F. Provide edge clearances in accordance with the quality standard specified.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and specified quality standard.
1. Install fire-rated doors in accordance with NFPA 80 requirements.

B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.

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REGISTERED ARCHITECT
JACK W. KIENAST
STATE OF TEXAS
SEALED

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

1. undercut 3/4"

C. Use machine tools to cut or drill for hardware.

D. Coordinate installation of doors with installation of frames and hardware.

3.03 TOLERANCES

A. Conform to specified quality standard for fit and clearance tolerances.

B. Conform to specified quality standard for telegraphing, warp, and squareness.

3.04 ADJUSTING

A. Adjust doors for smooth and balanced door movement.

B. Adjust closers for full closure.

END OF SECTION

SECTION 08310 - ACCESS DOORS AND PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Floor access door and frame units, interior.

1.02 REFERENCE STANDARDS

A. ITS (DIR) - Directory of Listed Products; Intertek Testing Services NA, Inc.; current edition.

B. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and details of adjoining work.

C. LEED Submittals: Submit applicable LEED Submittal Form for each different product, showing recycled content and geographic source of products.

1.04 PRODUCT HANDLING

A. All materials shall be delivered in manufacturer's original packaging.

B. Store materials in a dry, protected, well-vented area. The contractor shall thoroughly inspect product upon receipt and report damaged material immediately to delivering carrier and note such damage on the carrier's freight bill of lading.

C. Remove protective wrapping immediately after installation [if applicable].

1.05 WARRANTY/GUARANTEE

A. Manufacturer's standard warranty: Materials shall be free of defects in material and workmanship for a period of (5) five years from the date of purchase. Should a part fail to function in normal use within this period, manufacturer shall furnish a new part at no charge.
1.

PART 2 PRODUCTS

2.01 ACCESS DOOR AND PANEL APPLICATIONS

2.02 FLOOR UNITS

A. Floor Access Doors:
1. Bilco Company; Type K, aluminum, indoors: www.bilco.com.

B. Floor Door and Frame Units: Factory fabricated, fully assembled units with corner joints welded, filled, and ground flush; square and without rack or warp; coordinate requirements with assemblies units are to be installed in.
1. Size: As indicated., The access door shall be single leaf and the door shall be pre-assembled from the manufacturer.
2. Performance characteristics:
   a. Cover: Shall be reinforced to support a minimum live load of 150 psf (732 kg/m2) with a maximum deflection of 1/150th of the span.
   b. Operation of the cover shall be smooth and easy with controlled operation throughout the entire arc of opening and closing.
3. Operation of the cover shall not be affected by temperature.
   a. Cover: Shall be 1/4 (6.3 mm) aluminum diamond pattern plate.
   b. Frame: Shall be 1/4 (6.3 mm) extruded aluminum with strap anchors bolted to the exterior.
   c. Hinges: Shall be specifically designed for horizontal installation and shall be bolted to the underside of cover.
   d. Lifting mechanisms: Cam-action hinges shall pivot on torsion bars to provide, smooth, easy, and controlled cover operation throughout the entire arc of opening and to act as a check in retarding downward motion of the cover when closing.
   e. A removable exterior turn/lift handle with a spring loaded ball detent shall be provided to open the cover.
4. Hardware:
   a. Hinges: Cast steel cam-action hinges which pivot on torsion bars shall be provided.
   b. Cover shall be equipped with a steel hold open arm that automatically locks the cover in the open position.
   c. Cover shall be fitted with the required number and size of torsion bars.
   d. A Type 316 stainless steel snap lock with fixed handle shall be mounted on the underside of the cover.
   e. Hardware: Shall be zinc plated and chromate sealed. Type 316 stainless steel hardware is available for installation in corrosive environments.
   f. Finishes: Factory finish shall be mill finish aluminum with bituminous coating applied to the exterior of the frame.
   g. Lift Handle: Removable.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that rough openings are correctly sized and located.

B. Verify that the vault access door installation will not disrupt other trades. Verify that the substrate is dry, clean, and free of foreign matter. Report and correct defects prior to any installation.

3.02 INSTALLATION

A. Install units in accordance with manufacturer's instructions.

B. Install frames plumb and level in openings. Secure rigidly in place.

C. Position units to provide convenient access to the concealed work requiring access.

END OF SECTION

SECTION 08710 - DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hardware for wood, hollow steel, aluminum, and secured millwork doors.

B. Hardware for fire-rated doors.

C. Electrically operated and controlled hardware.

D. Thresholds.

E. Weatherstripping, seals and door gaskets.

F. Gate locks.

1.02 PRICE AND PAYMENT PROCEDURES

A. See Section 01210 (01 21 00) - Allowances, for allowances affecting this section.

1.03 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities; Final Rule; current edition, (ADA Standards for Accessible Design).

B. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.

C. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2012.

D. BHMAA156.2 - American National Standard for Bored and Preassembled Locks & Latches; Builders Hardware Manufacturers Association; 2011 (ANSI/BHMAA156.2).

E. BHMAA156.3 - American National Standard for Exit Devices; Builders Hardware Manufacturers Association; 2008 (ANSI/BHMA A156.3).

F. BHMAA156.4 - American National Standard for Door Controls - Closers; Builders Hardware Manufacturers Association. Inc.; 2008 (ANSI/BHMAA156.4).

G. BHMAA156.5 - American National Standard for Auxiliary Locks & Associated Products; Builders Hardware Manufacturers Association; 2010 (ANSI/BHMAA156.5).

H. BHMAA156.6 - American National Standard for Architectural Door Trim; Builders Hardware Manufacturers Association; 2010 (ANSI/ BHMAA156.6).

I. BHMAA156.7 - American National Standard for Template Hinge Dimensions; Builders Hardware Manufacturers Association, 2003 (ANSI/BHMAA156.7).

J. BHMAA156.8 - American National Standard for Door Controls - Overhead Stops and Holders; Builders Hardware Manufacturers Association, Inc.; 2010 (ANSI/BHMAA156.8).

K. BHMAA156.13 - American National Standard for Mortise Locks & Latches; Builders Hardware Manufacturers Association; 2005 (ANSI/BHMAA156.13).

L. BHMAA156.15 - American National Standard for Release Devices - Closer Holder, Electromagnetic and Electromechanical; Builders Hardware Manufacturers Association; 2011 (ANSI/BHMAA156.15).

M. BHMAA156.16 - American National Standard for Auxiliary Hardware; Builders Hardware Manufacturers Association; 2008 (ANSI/BHMA A156.16).

N. BHMAA156.17 - American National Standard for Self Closing Hinges & Pivots; Builders Hardware Manufacturers Association, Inc.; 2004 (ANSI/BHMAA156.17).

O. BHMAA156.18 - American National Standard for Materials and Finishes; Builders Hardware Manufacturers Association, Inc.; 2006 (ANSI/BHMAA156.18).

P. BHMAA156.21 - American National Standard for Thresholds; Builders Hardware Manufacturers Association; 2009 (ANSI/BHMA A156.21).

Q. BHMAA156.22 - American National Standard for Door Gasketing and Edge Seal Systems, Builders Hardware Manufacturers Association; 2012 (ANSI/BHMAA156.22).

R. BHMAA156.23 - American National Standard for Electromagnetic Locks; Builders Hardware Manufacturers Association, Inc.; 2010 (ANSI/BHMAA156.23).

S. BHMAA156.24 - American National Standard for Delayed Egress Locks; Builders Hardware Manufacturers Association; 2003 (ANSI/ BHMAA156.24).

T. BHMAA156.115 - Hardware Preparation in Steel Doors and Steel Frames; 2006.

U. BHMAA156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006.

V. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames; Door and Hardware Institute; 2004.

W. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors; Door and Hardware Institute; 1993; also in WDHS-1/WDHS-5 Series, 1996.

X. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2013.

Y. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures; National Fire Protection Association; 2012.

Z. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.

B. Convey Green Bank NA's keying requirements to manufacturers.

1.05 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project.

C. Hardware Schedule: Detailed listing of each item of hardware to be installed on each door. Use door numbering scheme as included in the Contract Documents. Identify electrically operated items and include power requirements.

D. Keying Schedule: Submit for approval of Green Bank NA.

E. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.

F. Keys: Deliver with identifying tags to Green Bank NA by security shipment direct from hardware supplier.

G. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Green Bank NA's name and registered with manufacturer.

H. Maintenance Materials and Tools: Furnish the following for Green Bank NA's use in maintenance of project.
1. See Section 01600 (01 60 00) - Product Requirements, for additional provisions.
2. Tools: One set of all special wrenches or tools applicable to each different or special hardware component, whether supplied by the hardware component manufacturer or not.

1.06 QUALITY ASSURANCE

A. Hardware Supplier Qualifications: Company specializing in supplying commercial door hardware with 5 years of experience.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

1.08 WARRANTY

A. See Section 01780 (01 78 00) - Closeout Submittals, for additional warranty requirements.

B. Provide five year warranty for all supplied hardware.

PART 2 PRODUCTS

2.01 DOOR HARDWARE - GENERAL

A. Provide all hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.

B. Provide all items of a single type of the same model by the same manufacturer.

C. Provide products that comply with the following.
1. Applicable provisions of federal, state, and local codes.
2. ADA Standards for Accessible Design.
3. ANSI/ICC A117.1, American National Standard for Accessible and Usable Buildings and Facilities.
4. Applicable provisions of NFPA 101, Life Safety Code.
5. Fire-Rated Doors: NFPA 80.
6. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.
7. Hardware for Smoke and Draft Control Doors: Provide hardware that enables door assembly to comply with air leakage requirements of the applicable code.
8. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.

D. Function: Lock and latch function numbers and descriptions of manufactures series as as specified in related specification sections.

E. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.

2.02 FIRE-RATED OPENING REQUIREMENTS

A. Door assemblies listed in the Door Schedule as "Rated" shall require the specified hardware be adjusted to comply with the Fire Rated requirements. The Hardware Supplier shall verify the rating of the individual hardware componats and recommend modifications that meet the functions indicated in the Hardware Schedule.

B. Door assemblies in corridors and smoke barriers.
1. Fire door assemblies required to have a minimum fire protection rating of 20 minutes where located in corridor walls or smoke barrier walls having a fire-resistance rating shall be tested in accordance with NFPA 252 or UL10C

C. Door assemblies in other fire partitions.
1. Fire door assemblies required to have a minimum fire protection rating of 20 minutes where located in other fire partitions having a fire-resistance rating of 0.5 hour in accordance with NFPA 252. UL IOB or UL IOC

D. Side-hinged or pivoted swinging doors.
1. Fire door assemblies with side-hinged and pivoted swinging doors shall be tested in accordance with NFPA 252 or UL10a.Smoke and draft control. Fire door assemblies shall also meet the requirements for a smoke and control door assembly tested in accordance with UL 1784

E. Hinges for Fire-Rated Doors: Steel base metal with plated finish.

F. Smoke and draft control door labeling requirements.
1. Smoke and draft control doors complying with UL 1784 shall be labeled and shall show the letter "S" on the fire-rating label of the door. This marking shall indicate labeled gasketing is also installed

G. Rated Door closing.
1. Fire doors shall be self- or automatic-closing

H. Automatic-closing fire door assemblies:
1. Automatic-closing fire door assemblies shall be self-closing accordance with NFPA 80.716.5.9.3 Smoke-activated doors. Automatic-closing doors installed in the following locations shall be automatic-closing by the actuation of smoke detectors installed in accordance with Section 907.3 or by loss of power to the smoke detector or hold-open devices.

I. Smoke-activated doors:
1. Automatic-closing doors installed in the following locations shall be automatic-closing by the actuation of smoke detectors or by loss of power to the smoke detector or hold-open devices.

J. Unless otherwise specifically permitted, single fire doors and both leaves of pairs of side-hinged swinging fire doors shall be provided with an active latch bolt that will secure the door

2.03 HARDWARE FINISHES

A. Match items to the manufacturer's standard color and texture finish for hardware supplied locksets.

B. Provide finishes that match those established by BHMA, or, if none established, match the Architect's sample.

C. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by reference standards for the applicable units of hardware.

D. Provide protective lacquer coating on all exposed hardware finishes of brass, bronze, aluminum, except as otherwise indicated. The suffix "-NL" is used with standard finish designations to indicate "no lacquer".

E. Refer Schedule for hardware finishes.

2.04 INSTALLATION

A. Provide hardware manufactured to conform to published templates, generally prepared for self-tapping sheet metal screws, except as specifically indicated.

B. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted finish.

C. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless their use is the only means of reinforcing the work adequately to fasten the hardware securely. Where thru-bolts are used as a means of reinforcing the work, provide sleeves for each thru-bolt or use sex screw fasteners.

2.05 HINGES

A. Hinges: Provide hinges on every swinging door.
1. Provide five-knuckle full mortise butt hinges unless otherwise indicated.
2. Provide ball-bearing hinges at all doors having closers.
3. Provide hinges in the quantities indicated.
4. Provide non-removable pins on exterior out swinging doors.
5. Shimming: Where required to correct frame or door irregularities, provide metal shims only.
6. Doors Requiring Full Width Clear Openings: Hinges swing door clear of opening when open 95 degrees from wall.
7. Where electrified hardware is mounted in door leaf, provide power transfer hinges.

B. Fire Rated Hinges: UL listed up to and including 90-minute applications for wood doors and up to 3-hour applications for metal doors.

C. Quantity of Hinges Per Door:
1. Doors up to 60 inches (1.5 m) High: Two hinges.
2. Doors From 60 inches (1.5 m) High up to 90 inches (2.3 m) High: Three hinges.
3. Doors 90 inches (2.3 m) High up to 120 inches (3 m) High: Four hinges.
4. Doors over 120 inches (3 m) High: One additional hinge per each additional 30 inches (762 mm) in height.
5. Dutch Doors: Two hinges each leaf.

D. Continuous Geared Hinges: Complying with ANSI/BHMA A156.26.
1. Size and Thickness:
   a. Thickness: As recommended by manufacturer for weight of door and finish hardware applied to door; door location and frequency of usage.
   b. Size: 1 inch (25 mm) less than door height.
2. Base Material: Aluminum extrusion; ASTM B221, 6063 T6 alloy, clear anodized finish. Coat unexposed working metal surfaces with tetrafluoroethylene (TFE) dry lubricant.
3. Bearing Material:
   a. Fire-Rated Doors: Celaness 2012.
   b. Non-Rated Doors: Lubriloy RL engineered nylon.
4. Bearing Spacing:
   a. Standard Weight Hinges: 5-1/8 inches (130 mm) maximum between bearings.
   b. Heavy Weight Hinges: 2-9/16 inches (65 mm) maximum spacing between bearings; 32 bearings minimum for typical door from 80 inches (2.0 m) to 84 inches (2.1 m) high.
5. Rounded Back Cover Channel (RBCC).

E. Continuous Pinned Hinges: Complying with ANSI/BHMA A156.26.
1. Size: One inch (25 mm) less than door height.
2. Material: 14 gage (1.9 mm), 304 stainless steal with 1/4 inch (6.3 mm) diameter stainless steel pin..
3. Bearings: Dual, lubricated, Nylon 6/6 bearings between knuckles.

F. Manufactures: Hinges
1. Assa Abloy: www.assaabloydss.com.
2. Bommer Industries, Inc: www.bommer.com.
3. C. R. Laurence Co., Inc; : www.crlaurence.com.
4. Hager Companies: www.hagerco.com.
5. Stanley Black & Decker: www.stanleyblackanddecker.com.
6. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.06 PIVOTS

A. Pivots: Provide top, center, and bottom for all doors less than 84 inches, provide 1 for each 12 inches additional height.
1. Provide products complying with ANSI/BHMAA156.4
2. Offset Pivots; Single acting only.
3. Center Pivots; Single or Double acting only.
4. Pocket Pivots; 90 degree opening only

B. Manufacturers - Pivots:
1. Assa Abloy Rixson: www.assaabloydss.com.
2. C. R. Laurence Co., Inc; : www.crlaurence.com.
3. DORMA Group North America: www.dorma-usa.com/usa.
4. Ives: www.ives.ingersollrand.com.
5. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.07 PUSH/PULLS

A. Push/Pulls: Provide products complying with ANSI/BHMA A156.6
1. Provide push and pull on doors not specified to have lockset, latchset, exit device, or auxiliary lock.
2. On solid doors, provide matching push plate and pull plate on opposite faces.
3. On glazed storefront doors, provide matching push/pull bars on both faces.

B. Manufacturers - Push/Pulls:
1. Assa Abloy Rockwood Manufacturing: www.assaabloydss.com.
2. C. R. Laurence Co., Inc: www.crlaurence.com.
3. Hager Companies: www.hagerco.com.
4. Hiawatha, Inc: www.hiawathainc.com.
5. Triangle Brass Manufacturing Co., Inc: www.trimcobbw.com.
6. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.08 LOCKS AND LATCHES

A. Locks: Provide a latchset or lockset for every door, unless specifically indicated as not requiring locking, push/pull, sliding or not required to lock or latch.
1. Hardware Sets indicate locking functions required for each door.
2. If no hardware set is indicated for a swinging door provide an office lockset.
3. Trim: Provide lever handle or pull trim on outside of all locks unless specifically stated to have no outside trim.
4. Lock Cylinders: Provide key access on outside of all locks unless specifically stated to have no locking or no outside trim
5. In door sections, where a lock cylinder referenced to Section 08710 (08 71 00) is specified, furnish and install a mortise lock cylinder keyed to the building keying system.

B. Provide cylindrical locksets, Grade 1 wherever locksets are called for, unless otherwise indicated..

C. Lock Cylinders: Manufacturer's standard tumbler type, seven-pin interchangeable core.
1. Provide cams and/or tailpieces as required for locking devices required.

D. Locksets - General:
1. On fire-rated and smoke-rated doors, provide products complying with:
   a. UL/cUL Labeled and listed for functions up to 3 hours for "A" label and for single doors up to 48 inches (1249 mm) in width and up to 96 inches (2.4 m) in height.
   b. UL10C/UBC 7-2 Positive Pressure Rated.
2. All Doors: Comply with ICC/ANSI A117.1.
3. Lock and Latch Chassis: Zinc dichromate.
4. Latch Bolts: Stainless steel; 1/2 inch (13 mm) minimum throw and deadlocking.
   a. Standard Backset: 2-3/4 inches (69.8 mm).
   b. Faceplate: Adjustable for square door edge or 1/8 (3.17mm) inch beveled door edge.
5. Keyed Functions: Freewheeling, vandal-resistant.
6. Handing: Non-handed, field reversible.
7. Mounting: Through-bolted with no exposed screws.

E. Lock and latch functions are listed in hardware schedule.

F. Trim:
1. Levers:Plated to match finish designation listed in hardware schedule.
2. Tactile Warning: Knurled levers on entry side of doors into potentially dangerous areas or spaces.

G. Strikes: ANSI A115-1; 1-1/4 inches (31.7 mm) x 4-7/8 inches (123.8 mm); select lip length to protect surrounding trim.
1. All strikes shall have standard square corner strikes as required and plastic strike keeper boxes
   a. Provide flat lip strikes for locks with 3-piece, antifriction latchbolt as recommended by manufacturer
   b. Provide extra long strike lips for locks used on frames requiring same
   c. Provide recess type top strikes for bolts locking into head frames, unless otherwise indicated
   d. Provide dust-proof strikes for foot bolts, except where special threshold construction provides non recessed strike for bolt

H. Rabbeted Doors: Where rabbeted doors stiles are indicated, provide special rabbeted front on lock and latch units and bolts

I. Lockset Rabbeted Doors: Where rabbeted doors stiles are indicated, provide special rabbeted front on lock and latch units and bolts

J. Electric Locks:
1. Fail Safe (power lock): Outside trim unlocked when power is switched off or fails.
2. Fail Secure (power unlock): Outside trim locked when power is switched off or fails.
   a. Continuous duty solenoids.
   b. 24VDC, 24VAC, 150ma

K. Keying: Key as directed by Owners Representative.
1. Key to existing keying system if renovations are indicated.
2. When providing keying information, comply with DHI Handbook "Keying systems and nomenclature".

2.09 CYLINDRICAL LOCKSETS

A. Locking Functions: As defined in BHMAA156.2, and as follows:
1. Cylindrical Locksets: Grade 1; complying with ANSI/BHMA A156.2.
2. Certified to Grade 1.
3. .Single-Swing, Out-Swinging Doors: Provide products tested to ANSI/BHMAA250.13:
   a. Door Assembly Impact Load: 1150 pounds (5.11 kN).
4. Door Assembly Design Load
   a. 36 inches (914 mm) wide by 84 inches (2.1 m) high: 100 pounds per square feet (4.78 kPa).
   b. 48 inches (1.2 m) wide by 84 inches (2.1 m) high; 70 psf (3.35 kPa).

B. Manufacturers - Cylindrical Locksets:
1. Match existing building standard manufacturer, style, and finish, coordinate latchset/lockset function listed in the Hardware Schedule.
   a. Existing locksets are Sargent.
2. Substitutions: Not permitted.

2.10 AUXILIARY LOCKS

A. Deadbolts: Provide products complying with ANSI/BHMAA156.36, Certified to Grade 1 - Operational and Security requirements

B. Cabinet Deadbolts: Provide products complying with ANSI/BHMA A156.11, Certified to Grade 1 - Operational and Security requirements

C. Deadbolt Locks: Grade 1.
1. Deadbolt: Brass with concealed hardened steel roller and 1 inch throw.
2. Keyed Functions: Freewheeling, vandal-resistant.
3. Handing: Non-handed, field reversible

D. Manufacturers - Deadbolts Locks and Cabinet Locks:
1. Best Access Systems, division of Stanley Security Solutions: www.bestlock.com.
   a. Owner will provide figure eight removable cores, contact prior to ordering locksets and cylinders to coordinate requirements.
   b. Contact Rick Watts, Access Manager BBVA Compass Bank 205.297.5113, Rick.watts@.com for more information and coordination.
2. Substitutions: Not permitted.

2.11 COMBINATION LOCKSETS

A. Combination Locksets: Provide products complying with ANSI/ BHMAA115.1,

B. Certified to Grade 1

C. 50 programmable users.

D. Key Override.

E. Power: Alkaline battery pack.

F. Lock Case: Fully-wrapped, 0.095 cold rolled steel.

G. Levers: Cast Brass; plated to match finish indicated in hardware schedule.

H. Manufacturers - Combination Locksets:
1. Schlage: www.schlage.com
2. Substitutions: Not permitted.

2.12 EXIT DEVICES

A. Exit Devices: Touch-pad type; complying with ANSI/BHMAA156.3 Grade 1; UL labeled for fire and panic; finished to match balance of hardware.

B. Locking Functions: Functions as defined in BHMAA156.3, and as follows:
1. Width: One-half door width, minimum.
2. Covers and Caps: Brass.
3. Chassis: Aluminum.
4. Keyed Functions: Freewheeling, vandal resistant; lever style and design to match other locksets in project
5. Fasteners: Wood screws, machine screws and through bolts.
6. Mounting: Flush with door; minimum door stile width:
   a. Pair with Surface Vertical Rod Devices: 5 inches (127 mm).
   b. Single: 5-3/8 inches (138 mm).:
   c. Pair with Rim Devices and Removable Mullion: 5 inches (127 mm).;
   d. Pair with Rim Devices and Fixed Frame Mullion: 5-3/4 inches (146 mm)

C. Cylinder, cores, keyways, and keying must match other locksets on project.

D. Manufacturers - Exit Devices
1. Von Duprin: www.vonduprin.ingersollrand.com.
2. Assa Abloy McKinney: www.assaabloydss.com
3. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

E. Removable Mullions: Certified by UL, cUL or Warnock Hersey for doors up to 8 feet (2.4 m) by 8 feet (2.4 m).
1. Function: Removable only by key, keyed to building system; lockable without use of key.
2. Use where indicated, to provide latching for rim devices on pairs of doors

F. Manufacturers - Removable Mullions
1. Von Duprin: www.vonduptin.ingersollrand.com.
2. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.13 CLOSERS

A. Closers: Surface-Mounted, Door-Mounted Closers: Non-handed, complying with ANSI/BHMAA156.4 Grade 1, with aluminum body and full plastic covers.

B. Closers: Complying with BHMAA156.4.
1. Also Complying With:
   a. ICC/ANSI A117.1
   b. UL/cUL; listed up to 3 hours.
   c. UL 10C; Positive Pressure Rated.
2. Springs: Double heat-treated, tempered steel.
3. Spindle: Triple heat-treated steel.
4. Piston: Precision-machined, heat-treated steel.
5. Operation: Full rack and pinion
6. Adjustment: Separate, staked, adjustable valve screws for latch speed, sweep speed, and backcheck.
7. Arms and Brackets:
   a. Arm Type: Manufacturer's standard.;
   b. Mounting Types: Manufacturer's standard "Tri-Pack" of regular arm, top jamb arm and parallel arm.;
8. Size: Comply with referenced standard for accessibility, including following maximum opening force requirements.
   a. Interior hinged openings: 5.0 pounds (22.2 N).
   b. Exterior hinged openings: 8.5 pounds (37.8 N).
9. Fasteners: Provide self-reaming and self-tapping wood and machine screws and sex nuts and bolts for each closer.
10. Provide a door closer on every exterior door.
11. Provide a rated door closer on every fire- and smoke-rated door. Spring hinges are not an acceptable self-closing device unless specifically so indicated.
12. On pairs of swinging doors, if an overlapping astragal is present, provide coordinator to ensure the leaves close in proper order.
13. At outswinging exterior doors, mount closer in inside of door.
14. At corridors, locate door-mounted closer on room side of

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REGISTERED ARCHITECT
JACK W. KIENAST
STATE OF TEXAS
SEAL

REVISIONS

DATE:
01.28.13
PROJECT NO:
1220
ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

910

door..

15. Access Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units complying with provisions for door opening force and delayed action closing
16. Combination Door Closers and Holders: Provide units designed to hold door in open position under normal usage and to release and close door automatically under fire conditions.
17. Flush Floor Plates: Provide finished metal flush floor plates for floor closers except where thresholds are indicated and cover plate is specified to be an integral part of threshold. Finish floor plate to match hardware sets, unless otherwise indicated

C. Warranty: Provide manufacturer's published twenty-five (25) year warranty for surface and floor closers and ten (10) year warranty for overhead concealed closers

1. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.14 STOPS AND HOLDERS

A. Stops: Complying with BHMA A156.8; provide a stop for every swinging door, unless otherwise indicated.

1. Provide wall stops, unless otherwise indicated.
2. If wall stops are not practical, due to configuration of room or furnishings, provide overhead stop.
3. Stop is not required if positive stop feature is specified for door closer; positive stop feature of door closer is not an acceptable substitute for a stop unless specifically so stated.
4. Where fastened to concrete, they shall be by machine screws and tamping shields; where fastened to walls shall be by toggle bolt or tamplin shields

B. Wall Stops:

C. Floor Stops:

D. Overhead Holders/Stops:

E. Magnetic Holder/Releases: Complying with BHMA A156.15; fail safe; doors release to close automatically when electrical current is interrupted; holding force: 25 to 40 pounds-force (111 to 177 N).

F. Manufacturers - Overhead Holders/Stops:

1. Assa Abloy Rixson, Sargent, or Rockwood: www.assaabloydss.com.
2. C. R. Laurence Co., Inc; : www.crlaurence.com.
3. DORMA Group North America: www.dorma-usa.com/usa.
4. Glynn-Johnson: www.glynn-johnson.com.
5. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

G. Manufacturers - Wall and Floor Stops/Holders:

1. Assa Abloy McKinney or Rockwood: www.assaabloydss.com.
2. C. R. Laurence Co., Inc; : www.crlaurence.com.
3. Hager Companies: www.hagerco.com.
4. Hiawatha, Inc: www.hiawathainc.com.
5. Triangle Brass Manufacturing Co., Inc: www.trimcobbw.com.
6. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.15 GASKETING AND THRESHOLDS

A. Gaskets: Complying with BHMA A156.22.

1. On each door in smoke partition, provide smoke gaskets; top, sides, and meeting stile of pairs. If fire/smoke partitions are not indicated on drawings, provide smoke gaskets on each door identified as a "smoke door" and 20-minute rated fire doors.
2. Provide continuous weather-stripping on exterior doors and smoke, light, or sound seals on interior doors where indicated or scheduled. Provide non-corrosive fasteners for exterior applications and elsewhere as indicated
3. On wood doors with fire rating more than 20-minutes, provide frame-applied intumescent gaskets.
4. On each exterior door, provide weatherstripping gaskets, unless otherwise indicated; top, sides, and meeting stiles of pairs.
   a. Where exterior door is also required to have fire or smoke rating, provide gaskets functioning as both smoke and weather seals.
5. On each exterior door, provide door bottom sweep, unless otherwise indicated.
6. On doors indicated as "sound-rated", "acoustical", or with an STC rating, provide sound-rated gaskets and automatic door bottom; make gaskets completely continuous, do not cut or notch gaskets for installation.
7. On doors indicated as "lightproof", provide gaskets similar to smoke gaskets.
8. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by manufacturer

B. Thresholds:

1. At each exterior door, provide a threshold unless otherwise indicated.
2. Field cut threshold to frame for tight fit.

C. Fasteners At Exterior Locations: Non-corroding.

D. SILENCERS

1. Furnish door silencers for all hollow metal door frames.:
2. Furnish three (3) silencers for each single door; six (6) for each pair of doors
3. For aluminum door provide integral felt or brush jamb strips
4. Pemko Manufacturing Co: www.pemko.com.
5. Zero International, Inc: www.zerointernational.com.
6. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

E. Manufacturers - Gasketing and Thresholds: National Guard Products, Inc. www.ngp.com

1. Furnish weatherstripping on all exterior doors not provided by door manufacturer.:
2. National Guard Products, Inc. www.ngp.com
3. Pemko Manufacturing Co: www.pemko.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.16 PROTECTION PLATES AND ARCHITECTURAL TRIM

A. Protection Plates:

1. Kickplate: Provide on push side of every door with closer, except storefront and all-glass doors.

B. Drip Guard: Provide projecting drip guard over all exterior doors unless they are under a projecting roof or canopy.

C. Manufacturers - Protection Plates and Architectural Trim:

1. Assa Abloy McKinney: www.assaabloydss.com.
2. C. R. Laurence Co., Inc; : www.crlaurence.com.
3. Hager Companies: www.hagerco.com.
4. Hiawatha, Inc: www.hiawathainc.com.
5. Triangle Brass Manufacturing Co., Inc: www.trimcobbw.com.
6. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as indicated on shop drawings.

B. Verify that electric power is available to power operated devices and of the correct characteristics.

3.02 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

1. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.

B. Use templates provided by hardware item manufacturer.

C. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation

D. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards

E. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.

F. Mounting heights for hardware from finished floor to center line of hardware item:

1. For steel doors and frames: Comply with DHI "Recommended Locations for Architectural Hardware for Steel Doors and Frames."
2. For wood doors: Comply with DHI "Recommended Locations for Architectural Hardware for Wood Flush Doors."

3.03 ADJUSTING

A. Adjust work under provisions of Section 01700 (01 70 00).

B. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.

C. Where door hardware is installed more than one month prior to acceptance of occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

D. Instruct Owner's personnel in proper adjustment and maintenance of door hardware and hardware finishes

E. Six-Month Adjustment: Approximately six months after the date of Substantial Completion, the Installer, accompanied by representatives of the manufacturers of latchsets and locksets and of door control devices, and of other major hardware suppliers, shall return to the Project to perform the following work:

1. Examine and re-adjust each item of door hardware as necessary to restore function of doors and hardware to comply with specified requirements
2. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures
3. Replace hardware items that have deteriorated or failed due to faulty design, materials, or installation of hardware units
4. Prepare a written report of current and predictable problems (of substantial nature) in the performance of the hardware.
5. Adjust hardware for smooth operation.

F. Provide special wrenches and tools applicable to each different or special hardware component

G. Provide maintenance tools and accessories supplied by hardware component manufacturer

H. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.04 CLEANING

A. Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

3.05 PROTECTION

A. Protect finished Work under provisions of Section 01700 (01 70 00).

B. Do not permit adjacent work to damage hardware or finish.

END OF SECTION

SECTION 08800 - GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Glass.

B. Plastic glazing film.

C. Glazing compounds and accessories.

1.02 REFERENCE STANDARDS

A. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2011).

B. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2011.

C. ASTM C1036 - Standard Specification for Flat Glass; 2011e1.

D. ASTM C1048 - Standard Specification for Heat-Treated Flat Glass—Kind HS, Kind FT Coated and Uncoated Glass; 2012.

E. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2011a.

F. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation; 2010.

G. GANA (GM) - GANA Glazing Manual; Glass Association of North America; 2009.

H. GANA (SM) - GANA Sealant Manual; Glass Association of North America; 2008.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data on Glass Types: Provide structural, physical and environmental characteristics, size limitations, special handling or installation requirements.

C. Product Data on Glazing Compounds: Provide chemical, functional, and environmental characteristics, limitations, special application requirements. Identify available colors.

D. Samples: Submit two samples 12 x 12 inch (300 x 300 mm) in size of glass units, showing coloration.

1.04 QUALITY ASSURANCE

A. Perform Work in accordance with GANA Glazing Manual and FGMA Sealant Manual for glazing installation methods.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years documented experience.

1.05 FIELD CONDITIONS

A. Do not install glazing when ambient temperature is less than 50 degrees F (10 degrees C).

1.06 WARRANTY

A. See Section 01780 (01 78 00) - Closeout Submittals, for additional warranty requirements.

B. Sealed Insulating Glass Units: Provide a five (5) year warranty to include coverage for seal failure, interpane dusting or misting, including replacement of failed units.

PART 2 PRODUCTS

2.01 GLAZING TYPES

A. Substitutions: Refer to Section 01600 (01 60 00) - Product Requirements.

1. Other products of the basis of design manufacturer and products of other manufacturers will be considered provided the overall performance is within the specified range(s) and the overall appearance is not significantly different from that of the specified product.
2. ALEXANDER+KIENAST+SCHNITZ's decision on substitutions is final.

B. Type 4 - Single Vision Glazing:

1. Applications: All interior glazing unless otherwise indicated.
2. Type: Fully tempered float glass.
3. Tint: Clear.
4. Thickness: 1/4 inch (6 mm).

2.02 GLASS MATERIALS

A. Float Glass Manufacturers:

1. Pilkington North America Inc: www.pilkington.com/na.
2. Substitutions: Refer to Section 01600 (01 60 00) - Product Requirements.

B. Float Glass: All glazing is to be float glass unless otherwise indicated.

1. Annealed Type: ASTM C1036, Type I, transparent flat, Class 1 clear, Quality Q3 (glazing select).
2. Heat-Strengthened and Fully Tempered Types: ASTM C1048.
3. Tinted Types: Color and performance characteristics as indicated.
4. Thicknesses: As indicated; for exterior glazing comply with specified requirements for wind load design regardless of specified thickness.

2.03 SEALED INSULATING GLASS UNITS

A. Sealed Insulating Glass Units: Types as indicated.

1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
2. Edge Spacers: Aluminum, bent and soldered corners.
3. Edge Seal: Glass to elastomer with supplementary silicone sealant.
4. Purge interpane space with dry hermetic air.

2.04 PLASTIC FILMS

A. Manufacturers:

1. 3M Window Film: www.3m.com/US/arch_construct/scpd/windowfilm.
   a. Plastic Film: 3M Frosted Crystal #7725-324
2. Substitutions: Refer to Section 01600 (01 60 00) - Product Requirements.

2.05 GLAZING COMPOUNDS

A. Manufacturers:

1. Bostik Inc: www.bostik-us.com.
2. Momentive Performance Materials, Inc (formerly GE Silicones): www.momentive.com.
3. Pecora Corporation: www.pecora.com.
4. BASF Construction Chemicals-Building Systems: www.buildingsystems.basf.com.
5. Substitutions: Refer to Section 01600 (01 60 00) - Product Requirements.

B. Butyl Sealant: Single component: ASTM C 920, Grade NS, Class 12-1/2, Uses M and A; Shore A hardness of 10 to 20; black color; non-skinning.

C. Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM C 920, Type S, Grade NS, Class 25, Uses M, A, and G; cured Shore A hardness of 15 to 25.

2.06 GLAZING ACCESSORIES

A. Setting Blocks: Neoprene, 80 to 90 Shore A durometer hardness, ASTM C864 Option I. Length of 0.1 inch for each square foot (25 mm for each square meter) of glazing or minimum 4 inch (100 mm) x width of glazing rabbet space minus 1/16 inch (1.5 mm) x height to suit glazing method and pane weight and area.

B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness, ASTM C 864 Option I. Minimum 3 inch (75 mm) long x one half the height of the glazing stop x thickness to suit application, self adhesive on one face.

C. Glazing Tape: Preformed butyl compound with integral resilient tube spacing device; 10 to 15 Shore A durometer hardness; coiled on release paper; size; black color.

D. Glazing Gaskets: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option I; Black color.

E. Glazing Clips: Manufacturer's standard type.

2.07 SOURCE QUALITY CONTROL AND TESTS

A. Provide shop inspection and testing for all glass.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that openings for glazing are correctly sized and within tolerance.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and ready to receive glazing.

3.02 PREPARATION

A. Clean contact surfaces with solvent and wipe dry.

B. Prime surfaces scheduled to receive sealant.

C. Install sealants in accordance with ASTM C1193 and GANA Sealant Manual.

D. Install sealant in accordance with manufacturer's instructions.

3.03 INSTALLATION - EXTERIOR DRY METHOD (TAPE AND GASKET SPLINE GLAZING)

A. Cut glazing tape to length; install on glazing pane. Seal corners by butting tape and sealing junctions with butyl sealant.

B. Place setting blocks at 1/4 points with edge block no more than 6 inches (150 mm) from corners.

C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure to attain full contact.

D. Install removable stops without displacing glazing spline. Exert pressure for full continuous contact.

E. Trim protruding tape edge.

3.04 INSTALLATION - EXTERIOR BUTT GLAZED METHOD (SEALANT ONLY)

A. Temporarily brace glass in position for duration of glazing process. Mask edges of glass at adjoining glass edges and between glass edges and framing members.

B. Temporarily secure a small diameter non-adhering foamed rod on back side of joint.

C. Apply sealant to open side of joint in continuous operation; thoroughly fill the joint without displacing the foam rod. Tool the sealant surface smooth to concave profile.

D. Permit sealant to cure then remove foam backer rod. Apply sealant to opposite side, tool smooth to concave profile.

E. Remove masking tape.

3.05 INSTALLATION - PLASTIC FILM

A. Install plastic film with adhesive, applied in accordance with film manufacturer's instructions.

B. Place without air bubbles, creases or visible distortion.

C. Cut away from frame as indicated on drawings.

3.06 CLEANING

A. Remove glazing materials from finish surfaces.

B. Remove labels after Work is complete.

C. Clean glass and adjacent surfaces.

3.07 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

END OF SECTION

SECTION 09206 - METAL LATH

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Metal lath for Portland cement and gypsum plaster.

B. Metal ceiling framing.

1.02 REFERENCE STANDARDS

A. ASTM C847 - Standard Specification for Metal Lath; 2012.

B. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2007.

C. ASTM C1063 - Standard Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster; 2012a.

C. LEED Submittal: Documentation of recycled content and location of manufacture.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing the work of this section with minimum 3 years experience.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Metal Lath:

1. Alabama Metal Industries Corporation: www.amico-online.com.
2. Clarkwestern Dietrich Building System LLC: www.clarkdietrich.com.
3. Dietrich Metal Framing: www.dietrichindustries.com.
4. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 FRAMING AND LATH ASSEMBLIES

A. Provide completed assemblies with the following characteristics:

1. Maximum Deflection of Vertical Assemblies: 1:360 under lateral point load of 100 lbs (445 N).
2. Maximum Deflection of Horizontal Assemblies: 1:240 deflection under dead loads and wind uplift.

2.03 FRAMING MATERIALS

A. Furring Channels: Formed steel, minimum 0.020 inch (0.5 mm) thick, 3/8 inch (10 mm) deep x 7/8 inch (22 mm) high, splicing permitted; galvanized.

B. Main Ceiling Channels: Formed steel, asphalt coated, minimum 0.05 inch (1.2 mm) thick, 3/4 inch (19 mm) deep x 1-1/2 inch (38 mm) high, single piece, no splicing; galvanized.

C. Hangers: Steel wire, of size and type to suit application, to support ceiling components in place to deflection limits as indicated.

D. Ceiling Hangers: Rolled steel sections, of size and type to suit application, to rigidly support ceiling components in place to deflection limits as indicated; galvanized.

E. Lateral Bracing: Formed steel, minimum 0.060 inch (1.5 mm) thick, size and length as required; galvanized.

2.04 LATH

A. Ribbed Metal Lath: ASTM C847, galvanized; 3/8 inch (9 mm) thick.

1. Weight: To suit application, comply with deflection criteria, and as specified in ASTM C841 for framing spacing.
2. Weight: 3.4 lb/sq yd (1.8 kg/sq m).
3. Backed with treated paper.

B. Beads, Screeds, Joint Accessories, and Other Trim: Depth governed by plaster thickness, maximum possible lengths.

1. Material: Formed galvanized sheet steel, expanded metal flanges.
2. Casing Beads: Square edges.
3. Expansion Joints: Accordion profile with factory-installed protective tape, 2 inch (50 mm) wide flanges.

2.05 ACCESSORIES

A. Anchorage: Tie wire, nails, and other metal supports, of type and size to suit application; to rigidly secure materials in place, galvanized.

B. Fasteners: ASTM C1002 self-piercing tapping screws.

C. Polyethylene Sheet: Clear, 6 mil (0.15 mm) thick.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that substrates are ready to receive work and conditions are suitable for application.

C. For exterior plaster and stucco on stud walls, verify that water-resistive barrier has been installed over sheathing substrate completely and correctly.

D. Do not begin until unacceptable conditions have been corrected.

E. If substrate preparation is the responsibility of another installer, notify ALEXANDER+KIENAST+SCHNITZ of unsatisfactory preparation before proceeding.

3.02 INSTALLATION - GENERAL

A. Install interior lath and furring in accordance with ASTM C841.

B. Install lath and furring for Portland cement plaster in accordance with ASTM C1063.

C. Install lath and furring for fire-rated assemblies in accordance with the requirements of the indicated assembly.

3.03 CEILING AND SOFFIT FRAMING

A. Install furring after work above ceiling or soffit is complete. Coordinate the location of hangers with other work.

B. Install furring independent of walls, columns, and above-ceiling work.

C. Securely anchor hangers to structural members or embed in structural slab. Space hangers as required to limit deflection to criteria indicated. Use rigid hangers at exterior soffits.

D. Space main carrying channels at maximum 48 inch on center, and not more than 6 inches (150 mm) from wall surfaces. Lap splice securely.

E. Securely fix carrying channels to hangers to prevent turning or twisting and to transmit full load to hangers.

F. Place furring channels perpendicular to carrying channels, not more than 2 inches (50 mm) from perimeter walls, and rigidly secure. Lap splices securely.

G. Reinforce openings in suspension system that interrupt main carrying channels or furring channels with lateral channel bracing. Extend bracing minimum 24 inches (600 mm) past each opening.

H. Laterally brace suspension system.

3.04 CONTROL AND EXPANSION JOINTS

A. Locate joints as indicated on drawings.

3.05 LATH INSTALLATION

A. Apply metal lath taut, with long dimension perpendicular to supports.

B. Lap ends minimum 1 inch (25 mm). Secure end laps with tie wire where they occur between supports.

C. Lap sides of diamond mesh lath minimum 1-1/2 inches (38 mm).

D. Attach metal lath to metal supports using tie wire at maximum 6 inches (150 mm) on center.

E. Continuously reinforce internal angles with corner mesh, except where the metal lath returns 3 inches (75 mm) from corner to form the angle reinforcement; fasten at perimeter edges only.

F. Place corner bead at external wall corners; fasten at outer edges of lath only.

G. Place base screeds at termination of plaster areas; secure rigidly in place.

H. Place 4 inch (100 mm) wide strips of metal lath centered over junctions of dissimilar backing materials. Secure rigidly in place.

I. Place lath vertically above each top corner and each side of door frames to 6 inches (150 mm) above ceiling line.

J. Place casing beads at terminations of plaster finish. Butt and align ends. Secure rigidly in place.

K. Place additional strip mesh diagonally at corners of lathed openings. Secure rigidly in place.

3.06 TOLERANCES

A. Maximum Variation from True Lines and Levels: 1/8 inch in 10 feet (3 mm in 3 m).

END OF SECTION

SECTION 09220 - PORTLAND CEMENT PLASTER

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Portland cement plaster for installation over metal lath and masonry.

1.02 REFERENCE STANDARDS

A. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar

B. ASTM C578 - Specification for Preformed, Cellular Polystyrene Thermal Insulation

C. ASTM C847 - Standard Specification for Metal Lath

D. ASTM C897 - Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plaster

E. ASTM C933 - Standard Specification for Welded Wire Lath <http://www.astm.org/Standards/C933.htm>

F. ASTM C1032 - Standard Specification for Woven Wire Plaster Base

G. ASTM C1063 - Standard Specification for Installation of Lathing and Furring for Portland Cement Based Plaster

H. ASTM C1177 - Specification for Glass Mat Gypsum for Use as Sheathing

I. ASTM C1278 - Specification for Fiber-Reinforced Gypsum Panel

J. ASTM C1396 - Standard Specification for Gypsum Board

K. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials

L. ASTM E119 - Method for Fire Tests of Building Construction and Materials

M. ASTM E330 - Test Method for Structural Performance of Windows, Curtain Walls, and Doors by Uniform Static air Pressure Difference

N. ASTM G153 - Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

O. ASTM C926 - Standard Specification for Application of Portland Cement-Based Plaster; 2012a.

P. ICC (IBC) - International Building Code; 2012.

Q. ICC Acceptance Criteria 219 - Acceptance Criteria for Exterior Insulation And Finish Systems

R. ICC Acceptance Criteria 11 - Acceptance Criteria for Cementitious Exterior Wall Coatings

S. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittals procedures.

B. Product Data: Provide data on plaster materials, characteristics and limitations of products specified.

C. Samples: Submit two samples, 12 x 12 inch (304 x 304 mm) in size illustrating finish color and texture.

D. LEED Submittal: Documentation of recycled content and location of manufacture.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience.

B. Functional Criteria:

1. General: Stucco application shall be to vertical substrates or to substrates sloped for positive drainage according to ASTM C926. Substrates sloped for drainage shall have additional protection from weather exposure that might be harmful to coating performance.

C. Substrate Conditions:

1. Substrate materials and construction shall conform to the the building code having jurisdiction.
2. Substrates shall be sound, dry and free of dust, dirt, laitance, efflorescence and other harmful contaminants.
3. Substrate Dimensional Tolerances: Flat with ¼ in (6.4 mm) within any 4 ft (1.22 m) radius.
4. Maximum deflection of substrate system under positive or negative design loads shall not exceed L/360 of span.

D.

1.05 MOCK-UP

A. Construct mock-up of exterior wall, 8 feet (2 m) long by 8 feet (2 m)

ALEXANDER KIENAST SCHNITZ
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REGISTERED ARCHITECT MICK W. KIENAST STATE OF TEXAS 1-24-13 SEALED

REVISIONS

DATE: 01.28.13

PROJECT NO.: 1220

ISSUED FOR: PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

911

wide, illustrating surface finish.

B. Locate where directed.

C. Mock-up may remain as part of the Work.

1.06 FIELD CONDITIONS

A. Do not apply plaster when substrate or ambient air temperature is under 50 degrees F (10 degrees C) or over 80 degrees F (27 degrees C).

B. Maintain minimum ambient temperature of 50 degrees F (10 degrees C) during installation of plaster and until cured.

PART 2 PRODUCTS

2.01 PORTLAND CEMENT PLASTER ASSEMBLIES

A. Exterior Stucco: Portland cement plaster system, made of finish, brown, and scratch coat and reinforcing mesh.LaHabra FastWall 100 Krak-Shield™ Stucco Assembly: A code complying water resistive barrier, wire fabric or metal lath, Armourwall Stucco Base (LaHabra Fastwall Stucco Base Concentrate or LaHabra Fastwall Stucco Base Sanded), Parex USA reinforcing mesh embedded in Parex USA Stucco Level Coat, LaHabra Bonder & Admix and a LaHabra cement finish coat.
1. Provide continuous exterior insulation as part of the system.
2. Provide weather resistive barrier and air barrier as part of the system.

2.02 PLASTER MATERIALS

A. Premixed Plaster for Stucco Scratch, Brown, and Finish Coats: Complying with material requirements of ASTM C926.
1. Products:
   a. LaHabra Fastwall 100 Krak-Shield Stucco Base
      1) LaHabra Fastwall 100 Krak-Shield Stucco Base Concentrate: Proprietary mixture of portland cement, and proprietary ingredients mixed with clean, cool, potable water, and ASTM C897 or ASTM C144 sand added in the field.

2.03 SUBSTRATE

A. Oriented Strand Board (OSB): 7/16 - ½ in Wall-16 or Wall-24, approved by the APA, TECO, or PSI/PTL. Stamped as Exposure 1 or Exterior Sheathing with a PS2 or PRP-108 rating. The system is qualified for application to OSB (oriented strand board) sheathing only in areas shown in the Parex USA "Acceptable Substrates and Areas of Use" Technical Bulletin.

2.04 WEATHER-RESISTIVE BARRIER:

A. For solid sheathing installed under the water-resistive barrier:
1. Dupont Tyvek

2.05 WATER-RESISTIVE BARRIER MATERIALS

A. Asphalt Felt: ASTM D226 Type I felt (No.15).
1. Use on vertical and face down horizontal surfaces.

B. Asphalt Felt: ASTM D226 Type I felt (No.30).
1. Use on face up horizontal surfaces.
2. Install over 26 guage galvanized metal flashing.

2.06 METAL LATH

A. Lath and Accessories: Conform to ASTM C847, ASTM C933, ASTM C1032, ASTM C1063 and Appendix
1. Accessories: Manufacturer's standard steel products with minimum G60 galvanizing unless otherwise indicated as rigid polyvinyl chloride (PVC plastic) or zinc alloy

B. Beads, Screeds, and Joint Accessories: As specified in Section 09206 (09 22 36.23).

2.07 REINFORCING MESH

A. 355 Standard Mesh: Weight 4.5 oz/yd2 (153 g/m2) reinforcing mesh.

2.08 PLASTER MIXES

A. Over Metal Lath: Three-coat application, mixed and proportioned in accordance with manufacturer's instructions.

B. LaHabra Perma-Primer: 100% acrylic based coating to prepare surfaces for LaHabra finishes.

C. Premixed Plaster Materials: Mix in accordance with manufacturer's instructions.

D. Leveling and Reinforcing Coat (Required for LaHabra Fastwall 100 Krak-Shield HE Stucco Assembly):
1. Stucco Level Coat: Copolymer based, factory blend of cement and proprietary ingredients requiring addition of water.
2. Parex USA 355 Standard Mesh: Weight 4.5 oz/yd2 (153 g/m2) reinforcing mesh

E. Perma-Flex Stucco Grade Acrylic Finish: Factory blended, 100% acrylic polymer based finish, integrally colored.

F.

G. Mix only as much plaster as can be used prior to initial set.

H. Mix materials dry, to uniform color and consistency, before adding water.

I. Protect mixtures from freezing, frost, contamination, and excessive evaporation.

J. Do not retemper mixes after initial set has occurred.

2.09 FINISH

A. Color: X-50 Crystal White

B. Finish: Santa Barbara Mission finish (SBMF)

2.10 RELATED MATERIALS

A. Lath and Accessories: Conform to ASTM C847, ASTM C933, ASTM C1032, ASTM C1063 and Appendix
1. Accessories: Manufacturer's standard steel products with minimum G60 galvanizing unless otherwise indicated as rigid polyvinyl chloride (PVC plastic) or zinc alloy. Wire Fabric Lath and Metal Lath: Install according to ICC Evaluation Report ESR 2564, ASTM C1063 and Appendix and the Building Code.
2. Metal Plaster Bases: Minimum 17 gauge self-furred stucco netting, minimum 2.5 lb/yd2 (1.4 kg/m2) or 3.4 lb/yd2 (1.8 kg/m2) expanded metal diamond lath, or welded wire lath in accordance with applicable codes and standards.
3. Weep Screeds: Foundation weep screed with minimum 3-½ inch vertical attachment flange.

B. Seals, Sealants and Bond Breakers: Sealants shall conform to ASTM C 920, Grade NS, Class 25, Use NT. Backer rod shall be closed-cell polyethylene foam.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify the suitability of existing conditions before starting work.

B. Metal Lath and Accessories: Verify lath is flat, secured to substrate, and joint and surface perimeter accessories are in place.

C. Mechanical and Electrical: Verify services within walls have been tested and approved.

3.02 PREPARATION

A. SITE / ENVIRONMENTAL CONDITIONS
1. Substrate Temperature: Do not apply LaHabra Stucco Assembly products to substrates whose temperature are below 40°F (4°C) or contain frost or ice.
2. Inclement Weather: Do not apply LaHabra products during inclement weather, unless appropriate protection is employed.
3. Sunlight Exposure: Avoid, when possible, installation of the LaHabra Fastwall 100 products in direct sunlight. Application of finishes in direct sunlight in hot weather may adversely affect aesthetics.
4. Do not apply stucco base coats aor finishes if ambient temperature falls below 40° F (4 ° C) within 24 hours of application. Protect stucco from uneven and excessive evaporation during dry weather and strong blasts of dry air.
5. Prior to installation, the wall shall be inspected for surface contamination, or other conditions that may adversely affect the performance of the LaHabra Fastwall 100 Stucco Assembly, and shall be free of residual moisture.

3.03 PLASTERING

A. Apply plaster in accordance with ASTM C926.

B. Three-Coat Application Over Metal Lath:
1. Apply first coat to a nominal thickness of 3/8 inch (9 mm).
2. Apply second coat to a nominal thickness of 3/8 inch (9 mm).
3. Apply finish coat to a nominal thickness of 1/4 inch (6 mm).

C. Expansion and Control Joints: Continuous expansion and control joints shall be installed at locations in accordance with ASTM C1063 and ASTM C926.
1. Substrate movement, and expansion and contraction of Parex Armourwall 300 Stucco and adjacent materials shall be taken into account in design of expansion joints, with proper consideration given to sealant properties, installation conditions, temperature range, coefficients of expansion of materials, joint width to depth ratios, and other material factors. Minimum width of expansion joints shall be as specified by the designer or shown on the project drawings.
2. In accordance with ASTM C1063, expansion or control joints shall be installed in walls not more than 144 ft² (13.4 m²) in area, and not more than 100 ft² (9.3 m²) in area for all non-vertical applications. The distance between joints shall not exceed 18 ft (5.5 m) in either direction or a length-to-width ratio of 2-½ to 1.

3.04 APPLICATION

A. General: LaHabra Fastwall 100 HE Stucco Assembly and its related materials shall conform to the requirements of ICC-ES Evaluation Report No. 2564 and shall conform to this specification.

B. LaHabra Fastwall 100 HE Stucco Base:
1. Mixtures shall be applied in one coats to a minimum thickness of 3/8 inches (9.5 mm) by hand troweling the mixture to the wire lath in accordance with Product Data Sheets. The maximum thickness applied in one pass is ½ in (17 mm).
2. Rod surface to true plane and float to densify.
3. Trowel to smooth and uniform surface to receive acrylic polymer finish coat.

C. Leveling and Reinforcing Coat :
1. After Moist Curing, allow base to air dry a minimum of 24 hours before applying the leveling and reinforcing coat.
2. Using a stainless steel trowel, apply level coat over stucco base at a thickness of 3/8 inche. (9.5 mm).
3. Fully embed the reinforcing mesh into the wet Stucco Level Coat including diagonal strips at corners of openings and trowel smooth. If 355 Standard Mesh is used, seams are overlapped 2½ in (63 mm), and if the 358.10 Intermediate Mesh is used, seams are butted and covered by strips of Detail mesh 356.
4. The acrylic primers and finishes can be applied as soon as the level coat has cured, typically within 24 hours.

D. Primer and Finish:
1. Remove surface contaminants such as dust or dirt without damaging the substrate.
2. Ambient and surface temperature must be 40°F (4°C) or higher during application and drying time. Supplemental heat and protection from precipitation must be provided as needed.
3. Use only on surfaces that are sound, clean, dry, unpainted, and free from any residue that might affect the ability of the finish to bond to the surface.
4. LaHabra Fastwall 100 Krak-Shield HE Stucco Assembly
   a. Before the application of the finish, the base coat must have cured a minimum of 24 hours or longer as required by conditions. Examine the cured base coat for any irregularities.
   b. Correct these irregularities to produce a flat surface

E. Curing:
1. LaHabra Fastwall 100 HE Stucco Base: Keep stucco moist for at least 48 hours (longer in dry weather) by lightly fogging walls. Start light fogging after initial set of 1-2 hours.
   a. Air dry acrylic based and elastomeric finish coats only, do not wet cure.

F. Finish Texture: Provide a consistent appearance; use the following finishes in the locations indicated:
1. Finish: Santa Barbara Mission finish (SBMF)

3.05 TOLERANCES

A. Maximum Variation from True Flatness: 1/8 inch in 10 feet (3 mm in 3 m).

3.06 CLEAN-UP

A. Removal: Remove and legally dispose of LaHabra Fastwall 100 HE Stucco component debris material from job site.

END OF SECTION

SECTION 09260 - GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 REFERENCE STANDARDS

A. ANSI A108.11 - American National Standard for Interior Installation of Cementitious Backer Units; 2012.1.

B. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2012.1.

C. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2002 (Reapproved 2007).

D. ASTM C514 - Standard Specification for Nails for the Application of Gypsum Board; 2004 (Reapproved 2009)e1.

E. ASTM C645 - Standard Specification for Nonstructural Steel Framing Members; 2011a.

F. ASTM C754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2011.

G. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2011.

H. ASTM C954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2011.

I. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2007.

J. ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2010a.

K. ASTM C1278/C1278M - Standard Specification for Fiber-Reinforced Gypsum Panel; 2007a (Reapproved 2011).

L. ASTM C1280 - Standard Specification for Application of Gypsum Sheathing; 2012.

M. ASTM C1325 - Standard Specification for Non-Asbestos Fiber-Mat Reinforced Cement Substrate Sheets; 2008b.

N. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2011.

O. ASTM C1658/C1658M - Standard Specification for Glass Mat Gypsum Panels; 2012.

P. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2012.

Q. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2009.

R. ASTM E413 - Classification for Rating Sound Insulation; 2010.

S. GA-216 - Application and Finishing of Gypsum Board; Gypsum Association; 2010.

T. GA-226 - Application of Gypsum Board to Form Curved Surfaces; Gypsum Association; 2008.

U. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.02 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.

1.03 QUALITY ASSURANCE

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.
1. See PART 3 for finishing requirements.

B. Interior Partitions Indicated as Acoustic: Provide completed assemblies with the following characteristics:
1. Acoustic Attenuation: STC of 45-49 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.

C. Fire Rated Assemblies: Provide completed assemblies with the following characteristics:
1. UL Assembly Numbers: Provide construction equivalent to that listed for the particular assembly in the current UL Fire Resistance Directory.

2.02 METAL FRAMING MATERIALS

A. Non-Loadbearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf (240 Pa).
1. Studs: "C" shaped with flat or formed webs with knurled faces.
2. Runners: U shaped, sized to match studs.
3. Resilient Furring Channels: 1/2 inch (12 mm) depth, for attachment to substrate through one leg only.

B. Partition Head To Structure Connections: Provide track fastened to structure with legs of sufficient length to accommodate deflection, for friction fit of studs cut short and fastened as indicated on drawings.

2.03 BOARD MATERIALS

A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Glass-mat-faced gypsum panels as defined in ASTM C1658/M, suitable for paint finish, of the same core type and thickness may be substituted for paper-faced board.
3. Unfaced fiber-reinforced gypsum panels as defined in ASTM C1278/C1278M, suitable for paint finish, of the same core type and thickness may be substituted for paper-faced board.
4. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
   a. Mold-resistant board is required at all locations.
5. At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
6. Thickness:
   a. Vertical Surfaces: 5/8 inch (16 mm).
   b. Ceilings: 5/8 inch (16 mm).
   c. Curved surfaces: 1/4 inch (6 mm).
   d. Multi-Layer Assemblies: Thicknesses as indicated on drawings.
7. Paper-Faced Products:
   a. American Gypsum; EagleRoc Regular Gypsum Wallboard and FireBloc Type X Gypsum Wallboard.
   b. CertainTeed Corporation; ProRoc Brand Gypsum Board.
   c. Georgia-Pacific Gypsum; ToughRock, ToughRock Fireguard, and ToughRock FireGuard C Gypsum Wallboard.
   d. National Gypsum Company; Gold Bond Brand Gypsum Wallboard.
   e. Temple-Inland Inc; Gypsumboard and Gypsum Board Fire Resistant Panels Type X and Type TGC.
   f. USG Corporation; Sheetrock Brand Gypsum Panels.
   g. Substitutions: See Section 01600 (01 60 00) - Product Requirements.
8. Mold-Resistant Paper-Faced Products:
   a. CertainTeed Corporation; ProRoc Brand Moisture & Mold Resistant Gypsum Board.
   b. National Gypsum Company; Gold Bond Brand XP Gypsum Board.
   c. Temple-Inland Inc; ComfortGuard Mold Resistant Gypsum Board.
   d. USG Corporation; Sheetrock Brand Mold Tough Gypsum Panels.
9. Glass-Mat-Faced Products:
   a. Georgia-Pacific Gypsum; DensArmor Plus.
   b. Temple-Inland Inc; GreenGlass Interior Gypsum Board.
   c. Georgia-Pacific Gypsum LLC; DansArmor Plus Abuse Guard.
   d. National Gypsum Company; Gold Bond e2XP Interior Extreme.

B. Backing Board For Wet Areas: One of the following products:
1. Application: Surfaces behind tile in all wet areas.
2. ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.9 or ASTM C1325.
   a. Thickness: 1/2 inch (12.7 mm).
   b. Products:
      1) Custom Building Products; Wonderboard.
      2) National Gypsum Company; PermaBase Brand Cement Board.
      3) National Gypsum Company; PermaBase Flex Brand Cement Board.
      4) USG Corporation; Durock Brand Cement Board.

2.04 ACCESSORIES

A. Acoustic Sealant: As specified in Section 07900 (07 90 05).

B. Finishing Accessories: ASTM C1047, galvanized steel, unless otherwise indicated.
1. Types: As detailed or required for finished appearance.
2. Special Shapes: In addition to conventional cornerbead and control joints, provide U-bead at exposed panel edges.

C. Joint Materials: ASTM C475 and as recommended by gypsum board manufacturer for project conditions.
1. Ready-mixed vinyl-based joint compound.

D. High Build Drywall Surfacer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.

E. Textured Finish Materials: Latex-based compound; plain.

F. Screws for Attachment to Steel Members Less Than 0.03 inch (0.7 mm) In Thickness, to Wood Members, and to Gypsum Board: ASTM C1002; self-piercing tapping type; cadmium-plated for exterior locations.

G. Screws for Attachment to Steel Members From 0.033 to 0.112 inch (0.8 to 2.8 mm) in Thickness: ASTM C954; steel drill screws for application of gypsum board to loadbearing steel studs.

H. Nails for Attachment to Wood Members: ASTM C514.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.02 FRAMING INSTALLATION

A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.

B. Studs: Space studs as indicated.
1. Extend partition framing to structure where indicated and to ceiling in other locations.
2. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
3. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.

C. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.

D. Blocking: Install wood blocking for support of:
1. Framed openings.
2. Wall mounted cabinets.
3. Plumbing fixtures.
4. Toilet partitions.
5. Toilet accessories.
6. Wall mounted door hardware.

3.03 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

B. Acoustic Sealant: Install in accordance with manufacturer's instructions.

3.04 BOARD INSTALLATION

A. Comply with ASTM C 840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

B. Single-Layer Non-Rated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.

C. Double-Layer Non-Rated: Use gypsum board for first layer, placed parallel to framing or furring members, with ends and edges occurring over firm bearing. Use glass mat faced gypsum board at exterior walls and at other locations as indicated. Place second layer perpendicular to framing or furring members. Offset joints of second layer from joints of first layer.

D. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.

E. Cementitious Backing Board: Install over steel framing members where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.

F. Installation on Metal Framing: Use screws for attachment of all gypsum board except face layer of non-rated double-layer assemblies, which may be installed by means of adhesive lamination.

G. Installation on Wood Framing: For rated assemblies, comply with requirements of listing authority. For non-rated assemblies, install as follows:
1. Single-Layer Applications: Screw attachment.
2. Double-Layer Application: Install base layer using screws or nails. Install face layer using adhesive.

H. Curved Surfaces: Apply gypsum board to curved substrates in accordance with GA-226.

I. Moisture Protection: Treat cut edges and holes in moisture resistant gypsum board and exterior gypsum soffit board with sealant.

3.05 INSTALLATION OF TRIM AND ACCESSORIES

A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
1. Not more than 30 feet (10 meters) apart on walls and ceilings over 50 feet (16 meters) long.
2. At exterior soffits, not more than 30 feet (10 meters) apart in both directions.

B. Corner Beads: Install at external corners, using longest practical lengths.

C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials and as indicated.

3.06 JOINT TREATMENT

A. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
2. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
3. Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.

B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
1. Feather coats of joint compound so that camber is maximum 1/32 inch (0.8 mm).

C. Where Level 5 finish is indicated, spray apply high build drywall surfacer over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.

D. Fill and finish joints and corners of cementitious backing board as recommended by manufacturer.

3.07 TEXTURE FINISH

A. Texture Required: light orange peel on walls to recieve eggshell and semi-gloss paint finish..

3.08 TOLERANCES

A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet (3 mm in 3 m) in any direction.

END OF SECTION

SECTION 09300 - TILE

PART 1 GENERAL

1.01 REFERENCE STANDARDS

A. ANSI A108 Series/A118 Series/A136.1 - American National Standard Specifications for the Installation of Ceramic Tile (Compendium); 2012.1.
1. ANSI A108.1a - American National Standard Specifications for Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar; 2012.1.
2. ANSI A108.1b - American National Standard Specifications for Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar; 2012.1.
3. ANSI A108.1c - Specifications for Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar or Installation of Ceramic Tile on a Cured Portland Cement Mortar Bed with Dry-Set or Latex Portland Cement Mortar; 2012.1.
4. ANSI A108.4 - American National Standard Specifications for Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive; 2012.1.
5. ANSI A108.5 - American National Standard Specifications for Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar; 2012.1.
6. ANSI A108.6 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy; 2012.1.
7. ANSI A108.8 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant Furan Resin Mortar and Grout; 2012.1.
8. ANSI A108.9 - American National Standard Specifications for Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout; 2012.1.
9. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 2012.1.
10. ANSI A108.11 - American National Standard for Interior Installation of Cementitious Backer Units; 2012.1.
11. ANSI A108.12 - American National Standard for Installation of Ceramic Tile with EGP (Exterior glue plywood) Latex-Portland Cement Mortar; 2012.1.
12. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2012.1.
13. ANSI A118.3 - American National Standard Specifications for Chemical Resistant, Water Cleanable Tile Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive; 2012.1.
14. ANSI A118.6 - American National Standard Specifications for Standard Cement Grouts for Tile Installation; 2012.1.
15. ANSI A118.7 - American National Standard Specifications for Polymer Modified Cement Grouts for Tile Installation; 2012.1.
16. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 2012.1.
17. ANSI A118.10 - American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation; 2012.1.

B. ANSI A118.12 - American National Standard Specifications for Crack Isolation Membranes for Thin-set Ceramic Tile and Dimension Stone Installation; 2012.1.

C. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation; 2012.

1.02 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Samples: Mount tile and apply grout on two plywood panels, minimum 36 x36 inches (900 x 900 x 900 mm) in size illustrating pattern, color variations, and grout joint size variations.

C. Maintenance Materials: Furnish the following for Green Bank NA's use in maintenance of project.
1. See Section 01600 (01 60 00) - Product Requirements, for additional provisions.
2. Extra Tile: 10 square feet (1 square meters) of each size, color, and surface finish combination.

1.03 QUALITY ASSURANCE

A. Maintain one copy of The Tile Council of North America Handbook and ANSI A108 Series/A118 Series on site.

B. Installer Qualifications: Company specializing in performing tile installation, with minimum of 5 years of documented experience.

1.04 FIELD CONDITIONS

A. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during installation of mortar materials.

PART 2 PRODUCTS

2.01 TILE

A. Manufacturers:
1. American Tile: www.americantileandstone.com
2. Vogue Bay Mosaic and Tile: www.voguebay.com/
3. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Ceramic Mosaic Tile: ANSI A137.1, and as follows:
1. Moisture Absorption: 0 to 0.5 percent.
2. Size and Shape: 1 inch square (25 mm square).
3. Edges: Square.
4. Surface Finish: Unglazed.
5. Colors: As shown on drawings.

C. Glazed Wall Tile: ANSI A137.1, and as follows:
1. Moisture Absorption: 3.0 to 7.0 percent.
2. Size and Shape: 4-1/4 inch (108 mm) square.
3. Edges: Cushioned.
4. Surface Finish: High gloss.
5. Trim Units: Matching bead, bullnose, cove, and base shapes in sizes coordinated with field tile.

2.02 SETTING MATERIALS

2.03 GROUTS

A. Manufacturers:
1. Bostik Inc: www.bostik-us.com.
2. LATICRETE International, Inc; LATICRETE SpectraLOCK PRO Premium Grout: www.laticrete.com.
3. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Standard Grout: ANSI A118.6 standard cement grout.
1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
2. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
3. Color(s): As scheduled.

C. Epoxy Grout: ANSI A118.3 chemical resistant and water-cleanable epoxy grout.
1. Color(s): As scheduled.

2.04 THIN-SET ACCESSORY MATERIALS

A. Concrete Floor Slab Crack Isolation Membrane: Material complying with ANSI A118.12; not intended as waterproofing.
1. Thickness: .20 mils (0.5 mm), maximum.
2. Crack Resistance: No failure at 1/16 inch (1.6 mm) gap, minimum.
3. Products:
   a. Merkrete, by Parex USA, Inc.; Merkrete Fracture Guard 5000: www.merkrete.com.
   b. Substitutions: See Section 01600 (01 60 00) -

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REVISIONS

DATE: 01.28.13

PROJECT NO: 1220

ISSUED FOR: PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

Product Requirements.

B. Waterproofing Membrane at Floors: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
   1. Type: Fluid-applied.
   2. Thickness: 25 mils (0.6 mm), minimum, dry film thickness.
   3. Products:
      a. ARDEX Engineered Cements; ARDEX 8+9: www.ardexamericas.com.
      b. AVM Industries, Inc; System 750 with polyester fabric reinforcing at edges, corners, joints, and cracks: www.avmindustries.com.
      c. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

C. Underlayment at Floors: Specifically designed for bonding to thin-set setting mortar; not primarily a waterproofing material and having the following characteristics:
   1. Water Resistance: Comply with ANSI A118.10, bonded waterproofing.
   2. Type: Fluid-applied.
   3. Do Not Use: Gypsum or cementitious based self-leveling underlayment.
   4. Products:
      a. LATICRETE International, Inc; LATICRETE Hydro Ban: www.laticrete.com.
      b. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

D. Cementitious Backer Board: ANSI A118.9; High density, cementitious, glass fiber reinforced, 1/2 inch (13 mm) thick; 2 inch (50 mm) wide coated glass fiber tape for joints and corners.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.

C. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of setting materials to sub-floor surfaces.

D. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within the following limits:
   1. Moisture emission rate: Not greater than 3 lb per 1000 sq ft (7.1 kg per 100 sq m) per 24 hours when tested using calcium chloride moisture test kit for 72 hours.
   2. Alkalinity: pH range of 5-9.

E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Protect surrounding work from damage.

B. Vacuum clean surfaces and damp clean.

C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.

D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of setting material to a feather edge.

3.03 INSTALLATION - GENERAL

A. Install tile, thresholds, and stair treads and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and The Tile Council of North America Handbook recommendations.

B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.

C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.

D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.

E. Form internal angles square and external angles bullnosed.

F. Sound tile after setting. Replace hollow sounding units.

G. Keep expansion joints free of adhesive or grout. Apply sealant to joints.

H. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

I. Grout tile joints. Use standard grout unless otherwise indicated.

J. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

3.04 INSTALLATION - FLOORS - THIN-SET METHODS

A. Over exterior concrete substrates, install in accordance with The Tile Council of North America Handbook Method F102, with standard grout.

B. Over interior concrete substrates, install in accordance with The Tile Council of North America Handbook Method F113, dry-set or latex-Portland cement bond coat, with standard grout, unless otherwise indicated.
   1. Where waterproofing membrane is indicated, install in accordance with The Tile Council of North America Handbook Method F122, with latex-Portland cement grout.
   2. Where epoxy or furan grout is indicated, but not epoxy or furan bond coat, install in accordance with The Tile Council of North America Handbook Method F115.

3.05 INSTALLATION - WALL TILE

A. On exterior walls install in accordance with The Tile Council of North America Handbook Method W244, thin-set over cementitious backer units, with waterproofing membrane.

B. Over cementitious backer units on studs, install in accordance with The Tile Council of North America Handbook Method W244, using membrane at toilet rooms.

3.06 CLEANING

A. Clean tile and grout surfaces.

3.07 PROTECTION

A. Do not permit traffic over finished floor surface for 4 days after installation.

END OF SECTION

SECTION 09511 - SUSPENDED ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Suspended metal grid ceiling system.

B. Acoustical units.

C. Supplementary acoustical insulation above ceiling.

1.02 RELATED REQUIREMENTS

A. Section 01616 (01 61 16) - Volatile Organic Compound (VOC) Content Restrictions.

1.03 REFERENCE STANDARDS

A. ASTM C635 - Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2007.

B. ASTM E1264 - Standard Classification for Acoustical Ceiling Products; 2008e1.

C. GEI (SCH) - GREENGUARD "Children and Schools" Certified Products; GREENGUARD Environmental Institute; current listings at www.greenguard.org.

D. SCS (CPD) - SCS Certified Products; Scientific Certification Systems; current listings at www.scscertified.com.

E. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.; current edition.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Samples: Submit two samples 12 x 12 inch (304 x 304 mm) in size illustrating material and finish of acoustical units.

C. Samples: Submit two samples each, 6 inches (150 mm) long, of suspension system main runner.

1.05 QUALITY ASSURANCE

A. Fire-Resistive Assemblies: Complete assembly listed and classified by UL for the fire resistance indicated.

1.06 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F (16 degrees C), and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

PART 2 PRODUCTS

2.01 ACOUSTICAL UNITS

A. Manufacturers:
   1. Armstrong World Industries, Inc: www.armstrong.com.
      a. Basis of design.
   2. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Acoustical Units - General: ASTM E1264, Class A.

C. Acoustical Panels: Painted mineral fiber, with the following characteristics:
   1. VOC Content: As specified in Section 01616 (01 61 16).
   2. VOC Content: Certified as Low Emission by one of the following :
      a. GreenGuard Children and Schools; www.greenguard.org.
   3. Size: 24 x 24 inches (600 x 600 mm).
   4. Thickness: 7/8 inches (21 mm).
   5. Composition: Wet felted.
   6. Light Reflectance: 0.86 percent, determined as specified in ASTM E1264.
   7. NRC Range: 0.78, determined as specified in ASTM E1264.
   8. Ceiling Attenuation Class (CAC): 38, determined as specified in ASTM E1264.
   9. Edge: Reveal edge.
   10. Surface Color: White.
   11. Surface Pattern: Non-Directional.
   12. Product: Cirrus #534 by Armstrong.
   13. Suspension System: Exposed grid.

2.02 SUSPENSION SYSTEM(S)

A. Manufacturers:
   1. Armstrong World Industries, Inc: www.armstrong.com.
      a. Basis of design.
   2. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Suspension Systems - General: ASTM C635; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.

C. Exposed Steel Suspension System: Formed steel, commercial quality cold rolled; intermediate-duty.
   1. Profile: Tee; 15/16 inch (24 mm) wide face.
   2. Finish: White painted.
   3. Product: Suprafine ML by Armstrong.

2.03 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

B. Perimeter Moldings: Same material and finish as grid.
   1. At Exposed Grid: Provide W-shaped molding for mounting at same elevation as face of grid.
      a. Suprafine #7874, 9/16 x 15/16 x 1/4 inch reveal.

C. Acoustical Insulation: Specified in Section 07212 (07 21 00).

D. Touch-up Paint: Type and color to match acoustical and grid units.

PART 3 EXECUTION

3.01 INSTALLATION - SUSPENSION SYSTEM

A. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.

B. Locate system on room axis according to reflected plan.

C. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.

D. Provide hanger clips during steel deck erection. Provide additional hangers and inserts as required.

E. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.

F. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.

G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.

H. Support fixture loads using supplementary hangers located within 6 inches (150 mm) of each corner, or support components independently.

I. Do not eccentrically load system or induce rotation of runners.

J. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
   1. Use longest practical lengths.
   2. Overlap and rivet corners.

K. Install light fixture boxes constructed of gypsum board above light fixtures in accordance with fire rated assembly requirements and light fixture ventilation requirements.

3.02 INSTALLATION - ACOUSTICAL UNITS

A. Install acoustical units in accordance with manufacturer's instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Fit border trim neatly against abutting surfaces.

D. Install units after above-ceiling work is complete.

E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.

F. Cutting Acoustical Units.
   1. Cut to fit irregular grid and perimeter edge trim.
   2. Make field cut edges of same profile as factory edges.
   3. Double cut and field paint exposed reveal edges.

G. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.

H. Install hold-down clips on panels within 20 ft (6 m) of an exterior door.

END OF SECTION

SECTION 09650 - RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient tile flooring.

B. Resilient base.

C. Installation accessories.

1.02 REFERENCE STANDARDS

A. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.

B. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2010)e1.

C. ASTM F1861 - Standard Specification for Resilient Wall Base; 2008.

D. BAAQMD 8-51 - Bay Area Air Quality Management District Regulation 8, Rule 51, Adhesive and Sealant Products; www.baaqmd.gov; 2002.

E. FS RR-T-650 - Treads, Metallic and Nonmetallic, Skid Resistant; Federal Specifications and Standards; Revision E, 1994.

F. GEI (SCH) - GREENGUARD "Children and Schools" Certified Products; GREENGUARD Environmental Institute; current listings at www.greenguard.org.

G. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; www.aqmd.gov.

H. SCS (CPD) - SCS Certified Products; Scientific Certification Systems; current listings at www.scscertified.com.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available, and installation instructions.

C. Verification Samples: Submit two samples, 8 x 8 inch (203 x 203 mm) in size illustrating color and pattern for each resilient flooring product specified.

D. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

E. LEED Report: Report recycled content and VOC emission of flooring; VOC content of adhesives.

F. Maintenance Materials: Furnish the following for Green Bank NA's use in maintenance of project.
   1. See Section 01600 (01 60 00) - Product Requirements, for additional provisions.
   2. Extra Stair Materials: Quantity equivalent to 1 box of each type and color.

G. LEED Submittal: Documentation of recycled content and location of manufacture.

1.04 FIELD CONDITIONS

A. Maintain temperature in storage area between 65 degrees F (18.33 degrees C) and 90 degrees F (72 degrees C).

B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F (21 degrees C) to achieve temperature stability. Thereafter, maintain conditions above 65 degrees F (18.333 degrees C).

PART 2 PRODUCTS

2.01 TILE FLOORING

A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness, and:
   1. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
   2. Size: As indicated on drawings.
   3. VOC Content: As specified in Section 01616 (01 61 16).
   4. VOC Content: Certified as Low Emission by one of the following :
      a. GreenGuard Children and Schools; www.greenguard.org.
      b. SCS Floorscore; www.scscertified.com.
   5. Thickness: 0.125 inch (3.2 mm).
   6. Pattern: Marbleized.
   7. Manufacturers:
      a. Armstrong World Industries, Inc: www.armstrong.com.
      b. Mannington Mills, Inc: www.mannington.com.
      c. Tarkett Inc: www.tarkett.com.
      d. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 RESILIENT BASE

A. Resilient Base: ASTM F1861, Type TS rubber, vulcanized thermoset; top set Style B, Cove, and as follows:
   1. Height: 2-1/2 inch (62 mm).
   2. Thickness: 0.125 inch (3.2 mm) thick.
   3. Finish: Satin.
   4. Length: Roll.
   5. Color: As indicated on drawings.
   6. Accessories: Premolded external corners and end stops.
   7. Manufacturers:
      a. Armstrong World Industries, Inc: www.armstrong.com.
      b. Burke Flooring: www.burkemercer.com.
      c. Johnsonite, Inc: www.johnsonite.com.
      d. Roppe Corp: www.roppe.com.
      e. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.03 ACCESSORIES

A. Subfloor Filler: White promix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.
   1. Provide only products having lower volatile organic compound (VOC) content than required by the more stringent of the South Coast Air Quality Management District Rule No.1168 and the Bay Area Air Quality Management District Regulation 8, Rule 51.

C. Moldings, Transition and Edge Strips: Same material as flooring.

D. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for resilient flooring installation by testing for moisture and pH.
   1. Test in accordance with ASTM F710.
   2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

C. Verify that concrete sub-floor surfaces are dry enough and ready for resilient flooring installation by testing for moisture emission rate and alkalinity in accordance with ASTM F710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

C. Prohibit traffic until filler is cured.

D. Clean substrate.

E. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Install in accordance with manufacturer's instructions.

C. Spread only enough adhesive to permit installation of materials before initial set.

D. Fit joints tightly.

E. Set flooring in place, press with heavy roller to attain full adhesion.

F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.

G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
   1. Resilient Strips: Attach to substrate using adhesive.

H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

I. Install flooring in recessed floor access covers, maintaining floor pattern.

3.04 TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless manufacturer's instructions say otherwise.

B. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.

C. Wax flooring prior to Owner's acceptance.

D. Install tile to ashlar pattern. Allow minimum 1/2 full size tile width at room or area perimeter.

3.05 RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints.

B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scribe and fit to door frames and other interruptions.

3.06 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's instructions.

3.07 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

SECTION 09685 - CARPET TILE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Carpet tile, fully adhered.

1.02 REFERENCE STANDARDS

A. ASTM D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2006 (Reapproved 2011).

B. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2010e1.

C. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.

D. CRI (CIS) - Carpet Installation Standard; Carpet and Rug Institute; 2009.

E. CRI (GLA) - Green Label Testing Program - Approved Adhesive Products; Carpet and Rug Institute; Current Edition.

F. CRI (GLP) - Green Label Plus Carpet Testing Program - Approved Products; Carpet and Rug Institute; Current Edition.

G. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; National Fire Protection Association; 2011.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

C. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.

D. Submit two, 18 x 18 inch long samples of edge strip.

E. LEED Report: Submit data documenting VOC content of carpet tile and adhesives; copy of current CRI Approved Products Listing is acceptable.

F. Manufacturer's Installation Instructions: Indicate special procedures.

G. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

H. Maintenance Materials: Furnish the following for Green Bank NA's use in maintenance of project.
   1. See Section 01600 (01 60 00) - Product Requirements, for additional provisions.
   2. Extra Carpet Tiles: 1 box of each color and pattern installed.

1.04 FIELD CONDITIONS

A. Maintain temperature in storage area between 65 degrees F (18.33 degrees C) and 90 degrees F (72 degrees C).

B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F (21 degrees C) to achieve temperature stability. Thereafter, maintain conditions above 65 degrees F (18.333 degrees C).

C. Do not begin the installation if the room or subfloor temperature is below 65° F. The adhesive will not function properly when applied over an extremely cold surface.

D. Relative humidity should not exceed 65%.

E. Maintain these conditions for 24 hours prior to, during and 24 hours after installation

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Shaw Contract Group: www.shawcontract.com.

2.02 MATERIALS

A. Carpet Tile: Tufted, manufactured in one color dye lot.
   1. Product: Sculpt Tile manufactured by Shaw Contract.
   2. Tile Size: 24 x 24 inch (608 x 608 mm), nominal.
   3. Thickness: 249 inch (6.32 mm).
   4. Color: As indicated on drawing.
   5. Pattern: As indicated on drawings.
   6. Critical Radiant Flux: Minimum of 0.22 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
   7. Surface Flammability Ignition: Pass ASTM D2859 (the "pill test").
   8. VOC Content: Provide CRI Green Label Plus certified product; in lieu of labeling, independent test report showing compliance is acceptable.
   9. Max. Electrostatic Charge: 3.5 Kv. at 20 percent relative humidity.
   10. Gage: 1/10 inch..
   11. Stitches: 13 per inch.
   12. Density Factor: 5581 kilotex.
   13. Primary Backing Material: Synthetic.
   14. Secondary Backing Material: Ecoworx.

2.03 ACCESSORIES

A. Sub-Floor Filler: White premix latex; type recommended by flooring material manufacturer.

B. Edge Strips: Rubber. Black color.

C. Carpet to ceramic tile edge strips:Stainless steel L-shaped profile 1/8 inch wide top and vertical wall section.
   1. Schluter;
      a. : Stainless steel

D. Adhesives: Acceptable to carpet tile manufacturer, compatible with materials being adhered; maximum VOC of 50 g/L; CRI Green Label certified; in lieu of labeled product, independent test report showing compliance is acceptable.

PART 3 EXECUTION

3.01 EXAMINATION

A. Test the concrete for alkalinity prior to beginning the installation. Check the concrete for surface pH at several locations. A reading below 5.0 or above 9.0 requires corrective measures.

B. Check the concrete for moisture at several locations using anhydrous calcium chloride test kits. The moisture transmission rate must not exceed 5.0 lbs. per 1000 sq. ft. per 24 hours. Do not begin the installation if an unacceptable moisture level is detected. Do not use other methods of moisture testing as they are not reliable. If excessive moisture is present, the general contractor or building owner must be advised and a decision made if the installation is to begin

C. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.

D. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.

E. Cementitious Sub-floor Surfaces: Verify that substrates are dry enough and ready for flooring installation by testing for moisture and pH.
   1. Test in accordance with ASTM F710.
   2. Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer.

F. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

C. Do not use sweeping compounds as they may leave oily deposits. The floor must be level and smooth. Depressions and cracks must be filled with a liquid latex additive patching compound and all protrusions leveled.

D. Concrete floors must be sealed with liquid latex such as if dusting or powdering exists. Please refer to all manufacturers' suggested use and precautions.

E. Cutback asphaltic adhesive or any other on-approved adhesives must never be allowed to come into contact with new adhesives. Installation failure could result.

F. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.

G. Vacuum clean substrate.

H. Ecoworx ES and Ergoflex ES backings are manufactured with the adhesive already applied. If any product is delivered to the site with this backing, DO NOT install, contact manufacture for replacement.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Cutback asphaltic adhesive or any other on-approved adhesives must never be allowed to come into contact with new adhesives. Installation failure could result.

C. Install carpet tile in accordance with manufacturer's instructions and CRI Carpet Installation Standard.

D. Begin the installation by installing according tithe carton number. Each module has directional arrows on the backing

E. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.

F. Lay carpet tile in pattern indicated on drawings pattern, with pile direction parallel to next unit, set aligned as indicated on shop drawings.

G. Fully adhere carpet tile to substrate.

H. Trim carpet tile neatly at walls and around interruptions.

I. Complete installation of edge strips, concealing exposed edges.

J. Roll the entire installation with a 75 lb roller once it iscompleted.2

K. Use plywood over the carpet when heavy objects aremoved within 24 hours after installation

3.04 CLEANING

A. Remove excess adhesive without damage, from floor, base, and wall surfaces.

B. Clean and vacuum carpet surfaces.

3.05 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

SECTION 09900 - PAINTS AND COATINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints, stains, varnishes, and other coatings.

C. Scope: Finish all interior and exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
   1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
   2. Exposed surfaces of steel lintels and ledge angles.
   3. Prime surfaces to receive wall coverings.
   4. Mechanical and Electrical:
      a. In employee occupied areas, paint all insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
      b. In finished areas, paint shop-primed items.
      c. On the the side of the building, paint all equipment that is visible to the public, including that which is factory-finished, as directed by ALEXANDER+KIENAST+SCHNITZ.

D. Do Not Paint or Finish the Following Items:
   1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished.
   2. Items indicated to receive other finishes.
   3. Items indicated to remain unfinished.
   4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
   5. Non-metallic roofing and flashing.
   6. Stainless steel, anodized aluminum, bronze, terne, and lead items.
   7. Marble, granite, slate, and other natural stones.
   8. Floors, unless specifically so indicated.
   9. Ceramic and other tiles.
   10. Brick, architectural concrete, cast stone, integrally colored

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REGISTERED ARCHITECT
JACK W. KIENAST
1-28-13
STATE OF TEXAS

SEALED

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT PRICING & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

913

plaster and stucco.
11. Exterior insulation and finish system (EIFS).
12. Glass.
13. Concrete masonry in utility, mechanical, and electrical spaces.
14. Acoustical materials, unless specifically so indicated.
15. Concealed pipes, ducts, and conduits.

1.02 RELATED REQUIREMENTS

A. Section 01616 (01 61 16) - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 05500 (05 50 00) - Metal Fabrications: Shop-primed items.

C. Section 05510 (05 51 00) - Metal Stairs: Shop-primed items.

1.03 REFERENCE STANDARDS

A. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials; 2007.

B. GreenSeal GS-11 - Paints; 1993.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide complete list of all products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

C. Samples: Submit three paper "drop" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
2. Where sheen is not specified, discuss sheen options with ALEXANDER+KIENAST+SCHNITZ before preparing samples, to eliminate sheens definitely not required.
3. Paint color submittals will not be considered until color submittals for major materials not to be painted, such as masonry and factory finished metals, have been approved.

D. Certification: By manufacturer that all paints and coatings comply with VOC limits specified.

E. Certification: By manufacturer that all paints and coatings do not contain any of the prohibited chemicals specified; GreenSeal GS-11 certification is not required but if provided shall constitute acceptable certification.

F. LEED Report: VOC content of all interior opaque coatings actually used.

G. Maintenance Materials: Furnish the following for Green Bank NA's use in maintenance of project.
1. See Section 01600 (01 60 00) - Product Requirements, for additional provisions.
2. Extra Paint and Coatings: 1 gallon (4 L) of each color; store where directed.
3. Label each container with color in addition to the manufacturer's label.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.06 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

D. Minimum Application Temperatures for Latex Paints: 45 degrees F (7 degrees C) for interiors; 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.

E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.

B. Paints:
1. Sherwin-Williams Company: www.sherwin-williams.com.
2. Glidden Professional: www.gliddenprofessional.com.
3. Benjamin Moore & Co: www.benjaminmoore.com.
4. Pratt & Lambert Paints: www.prattandlambert.com.

C. Primer Sealers: Same manufacturer as top coats.

D. Block Fillers: Same manufacturer as top coats.

E. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 PAINTS AND COATINGS - GENERAL

A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
1. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
4. Supply each coating material in quantity required to complete entire project's work from a single production run.
5. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.

B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

C. Volatile Organic Compound (VOC) Content: Comply with Section 01616 (01 61 16).

D. Chemical Content: The following compounds are prohibited:
1. Aromatic Compounds: In excess of 1.0 percent by weight of total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
2. Acrolein, acrylonitrile, antimony, benzene, butyl benzyl phthalate, cadmium, di (2-ethylhexyl) phthalate, di-n-butyl phthalate, di-n-octyl phthalate, 1,2-dichlorobenzene, diethyl phthalate, dimethyl phthalate, ethylbenzene, formaldehyde, hexavalent chromium, isophorone, lead, mercury, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, naphthalene, toluene (methylbenzene), 1,1,1-trichloroethane, vinyl chloride.

E. Flammability: Comply with applicable code for surface burning characteristics.

F. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by ALEXANDER+KIENAST+SCHNITZ from the manufacturer's full line.

G. Colors: As indicated on drawings
1. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Green Bank NA.
2. Extend colors to surface edges; colors may change at any edge as directed by ALEXANDER+KIENAST+SCHNITZ.

2.03 PAINT SYSTEMS - EXTERIOR

A. Paint EC-OP - All Exterior Concrete and Masonry Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including concrete, concrete masonry, brick, and cement board.
1. Preparation as specified by manufacturer.
2. Two top coats and one coat primer recommended by manufacturer.
3. Velvet: MPI gloss level 2; use this sheen at all locations.
4. Top Coat Product(s):
   a. Sherwin Williams: Pro Industral Zero VOC Acrylic Coating.
5. Primer On Concrete and Concrete Masonry: One heavy coat latex block filler (100 percent acrylic) squeegeed into pores
6. Primer on Plaster:

B. Paint GE-OP-3L - Gypsum Board and Plaster, Opaque, Latex, 3 Coat:
1. One coat of latex primer sealer.
2. Flat: Two coats of latex;
3. Top Coat Product(s):
   a. Sherwin Williams: Pro Industral Zero VOC Acrylic Coating.
4. Velvet: MPI gloss level 2; use this sheen at all locations.

C. Paint ME-OP-3A - Ferrous Metals, Unprimed, Alkyd, 3 Coat:
1. One coat of alkyd primer.
2. Semi-gloss: Two coats of alkyd enamel; .
3. Top Coat Product(s):
   a. Sherwin Williams: Pro Industral Enamel 100.
4. Semi-Gloss: MPI gloss level 5; use this sheen at all locations.

D. Paint MgE-OP-3A - Galvanized Metals, Alkyd, 3 Coat:
1. One coat galvanize primer.
2. Semi-gloss: Two coats of alkyd enamel; .
3. Top Coat Product(s):
   a. Sherwin Williams: Pro Industral Enamel 100.
4. Velvet: MPI gloss level 2; use this sheen at all locations.

E. Paint E-Pav - Pavement Marking Paint:
1. White: One coat, with reflective particles; TXDOT approved..

2.04 PAINT SYSTEMS - INTERIOR

A. Paint I-OP - All Interior Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including gypsum board, wood, plaster, uncoated steel, shop primed steel, and galvanized steel.
1. Two top coats and one coat primer.
2. Flat: MPI gloss level 1; use this sheen for ceilings and other overhead surfaces.
3. Velvet: MPI gloss level 2; use this sheen where indicated on rawings.
4. Eggshell: MPI gloss level 3; use this sheen where indicated on rawings.
5. Satin: MPI gloss level 4; use this sheen for items subject to frequent touching by occupants, including door frames and railings.
6. Semi-Gloss: MPI gloss level 5; use this sheen where indicated on rawings.
7. Top Coat Product(s):
   a. Sherwin-Williams ProMar 200 Zero VOC Interior Latex.
8. Primer(s): As recommended by manufacturer of top coats.

B. Paint MI-OP-2A - Ferrous Metals, Primed, Alkyd, 2 Coat:
1. Touch-up with alkyd primer.
2. Semi-gloss: Two coats of alkyd enamel; .
3. Top Coat Product(s):
   a. Sherwin Williams: Pro Industral Zero VOC Acrylic Coating
4. Primer(s): As recommended by manufacturer of top coats.

C. Paint MgI-OP-3A - Galvanized Metals, Alkyd, 3 Coat:
1. One coat galvanize primer.
2. Semi-gloss: Two coats of alkyd enamel; .
3. Top Coat Product(s):
   a. Sherwin Williams: Pro Industral Zero VOC Acrylic Coating.

2.05 ACCESSORY MATERIALS

A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; commercial quality.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

C. Test shop-applied primer for compatibility with subsequent cover materials.

D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Plaster and Stucco: 12 percent.
3. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
4. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
5. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to coating application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

D. Seal surfaces that might cause bleed through or staining of topcoat.

E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

F. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.

G. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.

H. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.

I. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.

J. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-PC 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).

K. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.

L. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.

M. Interior Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.

N. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior caulking compound after prime coat has been applied. Back prime concealed surfaces before installation.

O. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear sealer.

P. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.

C. Apply products in accordance with manufacturer's instructions.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

E. Apply each coat to uniform appearance.

F. Sand wood and metal surfaces lightly between coats to achieve required finish.

G. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

H. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

END OF SECTION

SECTION 09910 - EXTERIOR RENOVATION PAINTS AND COATINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints and other coatings.

C. Scope: Finish al exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
1. Exposed surfaces of steel lintels and ledge angles.

D. Do Not Paint or Finish the Following Items:
1. Items fully factory-finished unless specifically so indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
5. Non-metallic roofing and flashing.
6. Stainless steel, anodized aluminum, bronze, terne, and lead items.
7. Glass.

1.02 REFERENCE STANDARDS

A. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials; 2007.

B. GreenSeal GS-11 - Paints; 1993.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide complete list of all products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

C. Samples: Submit three paper "drop" samples, 8-1/2 by 11 inches (216 by 279 mm) in size, illustrating range of colors available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
2. Where sheen is not specified, discuss sheen options with ALEXANDER+KIENAST+SCHNITZ before preparing samples, to eliminate sheens definitely not required.
3. Paint color submittals will not be considered until color submittals for major materials not to be painted, such as masonry and factory finished metals, have been approved.

D. Certification: By manufacturer that all paints and coatings comply with VOC limits specified.

E. Maintenance Materials: Furnish the following for Green Bank NA's use in maintenance of project.
1. See Section 01600 (01 60 00) - Product Requirements, for additional provisions.
2. Extra Paint and Coatings: 1 gallon (4 L) of each color; store where directed.
3. Label each container with color in addition to the manufacturer's label.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

1.05 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.

D. Minimum Application Temperatures for Latex Paints: 45 degrees F (7 degrees C) for interiors; 50 degrees F (10 degrees C) for exterior; unless required otherwise by manufacturer's instructions.

E. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide all paint and coating products used in any individual system from the same manufacturer; no exceptions.

B. Paints:
1. Sherwin-Williams Company: www.sherwin-williams.com.

C. Primer Sealers: Same manufacturer as top coats.

D. Block Fillers: Same manufacturer as top coats.

E. Substitutions: Not permitted.

2.02 PAINTS AND COATINGS - GENERAL

A. Paints and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.
1. Provide paints and coatings of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
3. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base color.
4. Supply each coating material in quantity required to complete entire project's work from a single production run.
5. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.

B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

C. Chemical Content: The following compounds are prohibited:
1. Aromatic Compounds: In excess of 1.0 percent by weight of total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
2. Acrolein, acrylonitrile, antimony, benzene, butyl benzyl phthalate, cadmium, di (2-ethylhexyl) phthalate, di-n-butyl phthalate, di-n-octyl phthalate, 1,2-dichlorobenzene, diethyl phthalate, dimethyl phthalate, ethylbenzene, formaldehyde, hexavalent chromium, isophorone, lead, mercury, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, naphthalene, toluene (methylbenzene), 1,1,1-trichloroethane, vinyl chloride.

D. Flammability: Comply with applicable code for surface burning characteristics.

E. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by ALEXANDER+KIENAST+SCHNITZ from the manufacturer's full line.

F. Colors: As indicated on drawings
1. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Green Bank NA.
2. Extend colors to surface edges; colors may change at any edge as directed by ALEXANDER+KIENAST+SCHNITZ.

2.03 PAINT SYSTEMS - EXTERIOR

A. All Exterior Concrete and Masonry Surfaces Indicated to be Painted, Unless Otherwise Indicated: Including concrete, concrete masonry, brick, and cement board.
1. Preparation as specified by manufacturer.
2. Two top coats and one coat primer recommended by manufacturer.
3. Satin: MPI gloss level 4; use this sheen at all locations.
4. Top Coat Product(s):
   a. Sherwin Williams: A-100 Exterior Satin, A82-100 Series.
5. Primer:
   a. Primer On Brick: One heavy coat Loxon Concrete and Masonry Primer, squeegeed into pores.

B. All Metal copings and standing seam roofing.
1. Preparation as specified by manufacturer.
2. One coat galvanize primer.
3. Two top coats and one coat primer recommended by manufacturer.
4. Velvet: MPI gloss level 4; use this sheen at all locations.
5. Top Coat Product(s):
   a. Sherwin Williams: B71-200 Series, Sher-Cryl HPA
   b. Velvet: MPI gloss level 2; use this sheen at all locations.
6. Primer:
   a. Primer On Metal: One coat B66A50 DTM Bonding Primer.

2.04 ACCESSORY MATERIALS

A. Accessory Materials: Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required to achieve the finishes specified whether specifically indicated or not; commercial quality.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

C. Test shop-applied primer for compatibility with subsequent cover materials.

D. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Plaster and Stucco: 12 percent.
3. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
4. Interior Wood: 15 percent, measured in accordance with ASTM D4442.
5. Exterior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to coating application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

D. Seal surfaces that might cause bleed through or staining of topcoat.

E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

F. Concrete and Unit Masonry Surfaces to be Painted: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.

G. Gypsum Board Surfaces to be Painted: Fill minor defects with filler compound. Spot prime defects after repair.

H. Plaster Surfaces to be Painted: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.

I. Galvanized Surfaces to be Painted: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.

J. Corroded Steel and Iron Surfaces to be Painted: Prepare using at least SSPC-PC 2 (hand tool cleaning) or SSPC-SP 3 (power tool cleaning) followed by SSPC-SP 1 (solvent cleaning).

K. Uncorroded Uncoated Steel and Iron Surfaces to be Painted: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand or power tool wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Prime paint entire surface; spot prime after repairs.

L. Shop-Primed Steel Surfaces to be Finish Painted: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.

M. Interior Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.

N. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior caulking compound after prime coat has been applied. Back prime concealed surfaces before installation.

O. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear sealer.

P. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.

C. Apply products in accordance with manufacturer's instructions.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

E. Apply each coat to uniform appearance.

F. Sand wood and metal surfaces lightly between coats to achieve required finish.

G. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

H. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

END OF SECTION

SECTION 10400 - IDENTIFICATION DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Room and door signs.

1.02 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities; Final Rule; current edition; (ADA Standards for Accessible Design).

B. ANSI/ICC A117.1 - American National Standard for Accessible and Usable Buildings and Facilities; International Code Council; 2009.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Package signs as required to prevent damage before installation.

B. Package room and door signs in sequential order of installation, labeled by floor or building.

C. Store tape adhesive at normal room temperature.

1.05 FIELD CONDITIONS

A. Do not install tape adhesive when ambient temperature is lower than recommended by manufacturer.

B. Maintain this minimum temperature during and after installation of signs.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Flat Signs:
1. Best Sign Systems, Inc: www.bestsigns.com.
2. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 SIGNAGE APPLICATIONS

A. Accessibility Compliance: All signs are required to comply with ADA Standards for Accessible Design and ANSI/ICC A 117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.

B. Room and Door Signs: Provide a sign for every doorway, whether it has a door or not, not including corridors, lobbies, and similar open areas.
1. Sign Type: Flat signs with engraved panel media as specified.
2. Provide "tactile" signage, with letters raised minimum 1/32

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SEALED

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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inch (0.8 mm) and Grade II braille.
3. Character Height: 1 inch (25 mm).
4. Rest Rooms: Identify with Unisex pictograms, the names "UNISEX TOILET" and braille.

2.03 SIGN TYPES

A. Flat Signs: Signage media without frame.
1. Edges: Square.
2. Corners: Square.
3. Wall Mounting of One-Sided Signs: Tape adhesive.

B. Color and Font: Unless otherwise indicated:
1. Character Font: Helvetica, Arial, or other sans serif font.
2. Character Case: Upper case only.
3. Background Color: White.
4. Character Color: Black color.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install neatly, with horizontal edges level.

C. Locate signs where indicated:
1. Room and Door Signs: Locate on wall at latch side of door with centerline of sign at 60 inches (1525 mm) above finished floor.
2. If no location is indicated obtain Green Bank NA's instructions.

D. Protect from damage until Substantial Completion; repair or replace damage items.

END OF SECTION
SECTION 10523 - FIRE EXTINGUISHERS, CABINETS AND ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fire extinguishers.

B. Fire extinguisher cabinets.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

A. NFPA 10 - Standard for Portable Fire Extinguishers; 2010.

B. UL (FPED) - Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.

1.04 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide extinguisher operational features.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fire Extinguishers:
1. Larsen's Manufacturing Company: www.larsensmfg.com
2. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

B. Fire Extinguisher Cabinets and Accessories:
1. Larsen's Manufacturing Co: www.larsensmfg.com.
2. Substitutions: See Section 01600 (01 60 00) - Product Requirements.

2.02 FIRE EXTINGUISHERS

A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
1. Provide extinguishers labeled by UL for the purpose specified and indicated.

B. Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gage.
1. Class: A:B:C.: 1A-10B-C
2. Size: 2.5 pound (1.13 kg).
3. Wall bracket mounted: 817, or recessed wall cabinet..
4. Finish: Baked polyester powder coat, color as selected.
5. Manufacturer:
a. Larsen Mfg. : MP2-1/2

C. Carbon Dioxide Type Fire Extinguishers: Aluminum tank, with pressure gage.
1. Class: B:C: 5B-C
2. Size: 5 pound (2.27 kg).
3.
4. Wall bracket mounted: 817.
5. Finish: Baked enamel, color as selected.
6. Manufacturer:
a. Larsen Mfg. : HT5

2.03 FIRE EXTINGUISHER CABINETS

A. Metal: Formed primed steel sheet; 0.036 inch (0.9 mm) thick base metal.

B. Cabinet Configuration: Recessed type.
1. Sized to accommodate accessories.
2. Trim: Square Trim, 2-1/2 projection or provide aluminum angle frame to fill void between factory trim and partition face, Finish to match cabinet.
3. Trim: Returned to wall surface, with 2-1/2 inch projection,

C. Door: 0.036 inch (0.9 mm) thick, reinforced for flatness and rigidity; latch. Hinge doors for 180 degree opening with two butt hinge. Provide nylon catch.

D. Door Glazing: Glass, clear, 1/8 inch (3 mm) thick float. Set in resilient channel gasket glazing.

E. Cabinet Mounting Hardware: Appropriate to cabinet. Pre-drill for anchors.

F. Weld, fill, and grind components smooth.

G. Finish of Cabinet Exterior Trim and Door: No. 4.

H. Red vinyl lettering "FIRE EXTINQUISHER", run vertical on hinge side of door.

I. Finish of Cabinet Interior: White enamel.

J. Manufacturer:
1. Larsen Mfg. : Architectural Series, solid door: 2409-R3.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Secure rigidly in place.

C. Place extinguishers and accessories in cabinets.

END OF SECTION

SECTION 10706 - FIXED SUN SCREENS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Modular, shop fabricated, extruded aluminum sun screens to be mounted on structure provided by others.

1.02 REFERENCE STANDARDS

A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2012.

B. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 6000 Tensile Strength; 2010.

C. ASTM A792/A792M - Steel Sheet, 55% Aluminum-Zinc Alloy Coated by Hot Dip Process; 2010.

D. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2010.

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2012.

F. ASTM F593 - Standard Specification for Stainless Steel Bolts, Hex Cap Screws and Studs; 2002 (Reapproved 2008).

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Prior to commencement of fabrication, submit detailed shop drawings, showing all profiles, sections of all components, finishes, fastening details, and manufacturer's technical and descriptive data. Include field dimensions of openings and elevations on shop drawings.

C. Samples: 10 inches (254 mm) by 10 inches (254 mm) minimum illustrating design, workmanship and finish color.

D. Sample of Louver: For review of shape only.

E. Leed Submittals: Report recycled aluminum content.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to project site ready for erection.

B. Package using methods that prevent damage during shipping and storage on site.

C. Store materials under cover and elevated above grade.

1.05 WARRANTY

A. See Section 01780 - Closeout Submittals, for additional warranty requirements.

B. Sun Screens: Correct defective work within a one year period after date of Substantial Completion.

C. Finish Warranty: Provide manufacturer's one year warranty on factory finish against cracking, peeling, and blistering.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fixed Sun Screens:
1. Basis of Design: Model SA Series manufactured by Industrial Louvers Inc. (ILI).
a. Contact: 511 South 7th Street, Delano, MN 55328; Telephone: (763) 972-2981; Fax: (763) 972-2911.

2.02 SUN SCREENS

A. Sun Screens: Shop fabricated, shop finished, extruded aluminum outriggers, louvers, and fascia, free of defects impairing strength, durability or appearance.
1. Configuration: As indicated on drawings.
2. Louver Type: Slat.
3. Sun Screen Angle: 45 degrees from horizontal.
4. Outrigger Shape: Straight.
5. Design Criteria: Design and fabricate to resist the following loads without failure, damage, or permanent deflection:
a. Wind: 110 lbs/sf.
b. Thermal Movement: Plus/minus 1/8 inch (3.175 mm), maximum.
6. Sizes: As indicated on drawings.
7. Provide a complete system ready for erection at project site.

2.03 MATERIALS

A. Aluminum Extrusions: ASTM B209 or B 221.

B. Aluminum Coated Steel Sheet: ASTM A792/A792M.

C. Concealed Structural Supports: Aluminum, or steel coated for corrosion resistance and dissimilar metal isolation.

D. Fasteners: ASTM F593 stainless steel or ASTM A307 carbon steel.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates and site area for conditions that might prevent satisfactory installation.

B. Verify that dimensions of supporting structure are within plus/minus 1/8 inch (3.175 mm) of dimensions shown on shop drawings.

C. Verify that all adjacent painting, roofing, masonry work, and other work that might damage sun screen finish has been completed prior to installation of sun screens.

D. Do not install until after all adjacent painting, roofing and masonry have been completed.

E. Do not proceed with installation until all conditions are satisfactory.

3.02 INSTALLATION

A. Install in accordance with manufacturer's installation instructions.

B. Set units level, plumb, with uniform joints, and aligned with building elements.

C. Separate dissimilar metals using concealed bituminous paint or non-absorbent gasket.

D. Anchor units to structure as indicated on the drawings.

E. Do not cut or trim aluminum members without approval of manufacturer; do not install damaged members.

3.03 TOLERANCES

A. Maximum Variation from Level: Plus/Minus 1/8 inch (3.175 mm).

3.04 CLEANING

A. Clean exterior surfaces units of dust and debris; follow manufacturer's cleaning instructions for the finish used.

3.05 PROTECTION

A. Protect units after installation to prevent damage due to other work until the Date of Substantial Completion.

END OF SECTION
SECTION 10800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Accessories for toilet rooms, utility rooms, and Janitor Rooms.

B. Grab bars.

1.02 REFERENCE STANDARDS

A. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2010.

B. ASTM C1036 - Standard Specification for Flat Glass; 2011e1.

C. ASTM C1503 - Standard Specification for Silvered Flat Glass Mirror; 2008.

1.03 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on accessories describing size, finish, details of function, attachment methods.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Products listed are made by American Specialties, Inc.
1. Series: Simplicity

B. Other Acceptable Manufacturers:
1. Bradley Corporation: www.bradleycorp.com.
2. Bobrick Washroom Equipment, Inc: www.bobrick.com.
3. Substitutions: Section 01600 (01 60 00) - Product Requirements.

2.02 MATERIALS

A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
1. Grind welded joints smooth.
2. Fabricate units made of metal sheet of seamless sheets, with flat surfaces.

B. Keys: Provide three keys for each accessory to Green Bank NA; master key all lockable accessories.

C. Stainless Steel Sheet: ASTM A666, Type 304.

D. Mirror Glass: Float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

E. Fasteners, Screws, and Bolts: Hot dip galvanized, tamper-proof, security type.

F. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES

A. Stainless Steel: No. 4 satin brushed finish, unless otherwise noted.

B. Back paint components where contact is made with building finishes to prevent electrolysis.

2.04 TOILET ROOM ACCESSORIES

A. Refer to Accessory Mounting Heights Detail indicated on drawings for toilet accessory Tags and Selection Legend.

B. Toilet Paper Dispenser: Double roll, surface mounted bracket type, chrome-plated zinc alloy brackets, spindleless type for tension spring delivery designed to prevent theft of tissue roll.

C. Paper Towel Dispenser: Folded paper type, stainless steel, fully-recessed, with viewing slots on sides as refill indicator and tumbler lock.
1. Capacity: 600 C Fold minimum.

D. Waste Receptacle: Semi-Recessed, stainless steel, seamless lower door for access to container, with tumbler lock, reinforced panel full height of door, continuously welded bottom pan and seamless exposed flanges.
1. Liner: Reusable, heavy-duty vinyl liner, attached at a minimum of 4 points with stainless steel grommets and hooks.
2. Minimum capacity: 12 gallons (45 liters).

E. Combination Towel Dispenser/Waste Receptacle: Recessed flush with wall, stainless steel; seamless wall flanges, continuous piano hinges, tumbler locks on upper and lower doors.
1. Waste receptacle liner: Reusable, heavy-duty vinyl.
2. Towel dispenser capacity: 400 C-fold.
3. Waste receptacle capacity: 12 gallons (45 liters).

F. Waste Receptacle: Recessed Countertop mounted, stainless steel, seamless lower door for access to container, reinforced panel full height of door, continuously welded bottom pan and seamless exposed flanges.

G. Soap Dispenser: Cartridge dispenser, wall-mounted, recessed, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and window gage refill indicator, tumbler lock.

H. Mirrors: Stainless steel framed, 6 mm thick float glass mirror.
1. Frame: 0.05 inch (1.3 mm) angle shapes, with mitered and welded and ground corners, and tamperproof hanging system; No 4 finish.
2. Backing: Full-mirror sized, minimum 0.03 inch (0.8 mm) galvanized steel sheet and nonabsorptive filler material.

I. Seat Cover Dispenser: Stainless steel, recessed, reloading by concealed opening at base, tumbler lock.
1. Minimum capacity: 500 seat covers.

J. Seat Cover Dispenser: Stainless steel, two-sided partition mounting, reloading by concealed opening at base, tumbler lock.
1. Minimum capacity: 500 seat covers, each side.

K. Grab Bars: Stainless steel, nonslip grasping surface finish.

L. Grab Bars: Stainless steel, 1-1/4 inches (32 mm) outside diameter, minimum 0.05 inch (1.3 mm) wall thickness, nonslip grasping surface finish, concealed flange mounting; 1-1/2 inches (38 mm) clearance between wall and inside of grab bar.
1. Length and configuration: As indicated on drawings.

M. Combination Sanitary Napkin/Tampon Dispenser: Stainless steel, surface-mounted.
1. Door: Seamless 0.05 inch (1.3 mm) door with returned edges and tumbler lock.
2. Cabinet: Fully welded, 0.03 inch (0.8 mm) thick sheet.
3. Operation: 25 cent coin required to operate dispenser. Provide locked coin box, separately keyed.
4. Identify dispensers slots without using brand names.
5. Minimum capacity: 15 napkins and 20 tampons.

N. Sanitary Napkin Disposal Unit: Stainless steel, recessed, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle.

O. Sanitary Napkin Disposal Unit: Stainless steel, back-to-back partition mounting with adjustable flanges, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle.

P. Toilet Paper Dispenser / Sanitary Napkin Disposal / Seat Cover Dispenser Unit: Double roll, bracket type, stainless steel, spindleless type for tension spring delivery designed to prevent theft of tissue roll. Stainless steel, recessed, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle

Q. Toilet Paper Dispenser / Sanitary Napkin Disposal / Seat Cover Dispenser Unit: Double roll, bracket type, stainless steel, spindleless type for tension spring delivery designed to prevent theft of tissue roll. Stainless steel, back-to-back partition mounting with adjustable flanges, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle

R. Toilet Paper Dispenser / Seat Cover Dispenser Unit: Double roll, bracket type, stainless steel, spindleless type for tension spring delivery designed to prevent theft of tissue roll. Stainless steel, recessed, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle

S. Toilet Paper Dispenser / Seat Cover Dispenser Unit: Double roll, bracket type, stainless steel, spindleless type for tension spring delivery designed to prevent theft of tissue roll. Stainless steel, back-to-back partition mounting with adjustable flanges, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle

T. Surface mounted heavy duty robe hook: Door-mounted, 3 inch (projection mm) satin-finished chrome.
1. Provide two for each toilet stall door or single fixture toilet door.
a. Mount one at 48 inches and one at 60 inches on the centerline of the door.

2.05 UTILITY ROOM ACCESSORIES

A. Mop and Broom Holder: 0.05 inch (1.3 mm) thick stainless steel, Type 304, hat-shaped channel.
1. Holders: 43 spring-loaded rubber cam holders.
2. Length: 36 inches (900 mm).
3. Length: Manufacturer's standard length for number of holders.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify exact location of accessories for installation.

C. Verify conditions behind installation location, prior to installing final finishes, relocate any blocking, studs, or obstacles that would prevent installation. Do not install final finishes until alternate locations are approved by ALEXANDER+KIENAST+SCHNITZ

3.02 PREPARATION

A. Deliver inserts and rough-in frames to site for timely installation.

3.03 INSTALLATION

A. Install accessories in accordance with manufacturers' instructions.

B. Install plumb and level, securely and rigidly anchored to substrate.

C. Mounting Heights and Locations: As required by accessibility regulations and as indicated on drawings

END OF SECTION
SECTION 15950 - TESTING, ADJUSTING, AND BALANCING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Testing, adjustment, and balancing of air systems.

1.02 SUBMITTALS

A. See Section 01300 (01 30 00) - Administrative Requirements, for submittal procedures.

B. Qualifications: Submit name of adjusting and balancing agency and TAB supervisor for approval within 30 days after award of Contract.

C. TAB Plan: Submit a written plan indicating the testing, adjusting, and balancing standard to be followed and the specific approach for each system and component.
1. Include at least the following in the plan:
a. List of all air flow, water flow, sound level, system capacity and efficiency measurements to be performed and a description of specific test procedures, parameters, formulas to be used.
b. Copy of field checkout sheets and logs to be used, listing each piece of equipment to be tested, adjusted and balanced with the data cells to be gathered for each.
c. Discussion of what notations and markings will be made on the duct and piping drawings during the process.
d. Final test report forms to be used.
e. Procedures for formal deficiency reports, including scope, frequency and distribution.

D. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.
1. Revise TAB plan to reflect actual procedures and submit as part of final report.
2. Submit draft copies of report for review prior to final acceptance of Project. Provide final copies for ALEXANDER+KIENAST+SCHNITZ and for inclusion in operating and maintenance manuals.
3. Provide reports in soft cover, letter size, 3-ring binder manuals, complete with index page and indexing tabs, with cover identification at front and side. Include set of reduced drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat locations.
4. Include actual instrument list, with manufacturer name, serial number, and date of calibration.
5. Form of Test Reports: Where the TAB standard being followed recommends a report format use that; otherwise, follow ASHRAE Std 111.
6. Units of Measure: Report data in both I-P (inch-pound) and SI (metric) units.

E. Project Record Documents: Record actual locations of flow measuring stations and balancing valves and rough setting.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. Perform total system balance in accordance with one of the following:

B. Begin work after completion of systems to be tested, adjusted, or balanced and complete work prior to Substantial Completion of the project.

C. TAB Agency Qualifications:
1. Company specializing in the testing, adjusting, and balancing of systems specified in this section.

3.02 EXAMINATION

A. Verify that systems are complete and operable before commencing work. Ensure the following conditions:
1. Systems are started and operating in a safe and normal condition.
2. Temperature control systems are installed complete and operable.
3. Proper thermal overload protection is in place for electrical equipment.
4. Final filters are clean and in place. If required, install temporary media in addition to final filters.
5. Duct systems are clean of debris.
6. Fans are rotating correctly.
7. Fire and volume dampers are in place and open.
8. Air coil fins are cleaned and combed.
9. Access doors are closed and duct end caps are in place.
10. Air outlets are installed and connected.

B. Submit field reports. Report defects and deficiencies that will or could prevent proper system balance.

C. Beginning of work means acceptance of existing conditions.

3.03 PREPARATION

A. Provide instruments required for testing, adjusting, and balancing operations. Make instruments available to ALEXANDER+KIENAST+SCHNITZ to facilitate spot checks during testing.

B. Provide additional balancing devices as required.

3.04 ADJUSTMENT TOLERANCES

A. Air Handling Systems: Adjust to within plus or minus 5 percent of design for supply systems and plus or minus 10 percent of design for return and exhaust systems.

B. Air Outlets and Inlets: Adjust total to within plus 10 percent and minus 5 percent of design to space. Adjust outlets and inlets in space to within plus or minus 10 percent of design.

3.05 RECORDING AND ADJUSTING

A. Ensure recorded data represents actual measured or observed conditions.

B. Permanently mark settings of valves, dampers, and other adjustment devices allowing settings to be restored. Set and lock memory stops.

C. After adjustment, take measurements to verify balance has not been disrupted or that such disruption has been rectified.

D. Leave systems in proper working order, replacing belt guards, closing access doors, closing doors to electrical switch boxes, and restoring thermostats to specified settings.

3.06 AIR SYSTEM PROCEDURE

A. Adjust air handling and distribution systems to provide required or design supply, return, and exhaust air quantities at site altitude.

B. Make air quantity measurements in ducts by Pitot tube traverse of entire cross sectional area of duct.

C. Measure air quantities at air inlets and outlets.

D. Adjust distribution system to obtain uniform space temperatures free from objectionable drafts and noise.

E. Use volume control devices to regulate air quantities only to extend that adjustments do not create objectionable air motion or sound levels. Effect volume control by duct internal devices such as dampers and splitters.

F. Vary total system air quantities by adjustment of fan speeds. Provide drive changes required. Vary branch air quantities by damper regulation.

G. Provide system schematic with required and actual air quantities recorded at each outlet or inlet.

H. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across the fan. Make allowances for 50 percent loading of filters.

I. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions.

J. Measure temperature conditions across outside air, return air, and exhaust dampers to check leakage.

K. Where modulating dampers are provided, take measurements and balance at extreme conditions.

L. For variable air volume system powered units set volume controller to air flow setting indicated. Confirm connections properly made and confirm proper operation for automatic variable air volume temperature control.

3.07 SCOPE

A. Test, adjust, and balance the following:
1. Packaged Roof Top Heating/Cooling Units
2. Induction Units
3. Fans

3.08 MINIMUM DATA TO BE REPORTED

A. Electric Motors:
1. Manufacturer
2. Model/Frame
3. HP/BHP
4. Phase, voltage, amperage; nameplate, actual, no load
5. RPM
6. Service factor
7. Starter size, rating, heater elements
8. Sheave Make/Size/Bore

B. V-Belt Drives:
1. Identification/location
2. Required driven RPM
3. Driven sheave, diameter and RPM
4. Belt, size and quantity
5. Motor sheave diameter and RPM
6. Center to center distance, maximum, minimum, and actual

C. Cooling Coils:
1. Identification/number
2. Location
3. Service
4. Manufacturer
5. Air flow, design and actual
6. Entering air DB temperature, design and actual
7. Entering air WB temperature, design and actual
8. Leaving air DB temperature, design and actual
9. Leaving air WB temperature, design and actual
10. Water flow, design and actual
11. Water pressure drop, design and actual
12. Entering water temperature, design and actual
13. Leaving water temperature, design and actual
14. Saturated suction temperature, design and actual
15. Air pressure drop, design and actual

D. Heating Coils:
1. Identification/number
2. Location
3. Service
4. Manufacturer
5. Air flow, design and actual
6. Entering air temperature, design and actual
7. Leaving air temperature, design and actual
8. Air pressure drop, design and actual

E. Air Moving Equipment:
1. Location
2. Manufacturer
3. Model number
4. Serial number
5. Arrangement/Class/Discharge
6. Air flow, specified and actual
7. Return air flow, specified and actual
8. Outside air flow, specified and actual
9. Total static pressure (total external), specified and actual
10. Inlet pressure
11. Discharge pressure
12. Sheave Make/Size/Bore
13. Number of Belts/Make/Size
14. Fan RPM

F. Return Air/Outside Air:
1. Identification/location
2. Design air flow
3. Actual air flow
4. Design return air flow
5. Actual return air flow
6. Design outside air flow
7. Actual outside air flow
8. Return air temperature
9. Outside air temperature
10. Required mixed air temperature
11. Actual mixed air temperature
12. Design outside/return air ratio
13. Actual outside/return air ratio

G. Exhaust Fans:
1. Location
2. Manufacturer
3. Model number
4. Serial number
5. Air flow, specified and actual
6. Total static pressure (total external), specified and actual
7. Inlet pressure
8. Discharge pressure
9. Sheave Make/Size/Bore
10. Number of Belts/Make/Size
11. Fan RPM

END OF SECTION

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REGISTERED ARCHITECT
JACK W. KIENAST
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5384
STATE OF TEXAS
SEAL

REVISIONS

DATE:
01.28.13

PROJECT NO:
1220

ISSUED FOR:
PERMIT, PRICING & CONSTRUCTION

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GREEN BANK
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915

MECHANICAL NOTES BY SYMBOL "⬡"

1. RELOCATE EXISTING S/A DIFFUSERS, R/A GRILLES AND EXHAUST GRILLES TO INDICATED LOCATION. EXTEND DUCTWORK AS REQUIRED. MATCH EXISTING DUCT SIZE. RE-BALANCE S/A DIFFUSERS AND EXHAUST GRILLES TO EXISTING AIRFLOW.
2. CONNECT NEW EXHAUST DUCT TO EXISTING RESTROOM EXHAUST DUCT UP TO EXISTING EXHAUST FAN. CONTROL EXHAUST FAN VIA TIME CLOCK. RE-SHIEVE EXHAUST FAN TO PROVIDE 25 ADDITIONAL CFM OF AIRFLOW.
3. INSTALL 12x12 TITUS 8F EXHAUST GRILLE BALANCED TO 25 CFM.
4. INSTALL 24x24 TITUS TMS DIFFUSER.
5. INSTALL SF-1 ABOVE OFFICE DROP IN CEILING. RETURN DUCT SHALL TERMINATE ABOVE CEILING SPACE TO CIRCULATE CONDITIONED AIR FROM ATRIUM HALLWAY DOWN INTO OFFICE SPACE.
6. SUPPLY AND RETURN DUCTWORK CONNECT TO SF-1 SHALL HAVE INTERNAL SOUND ATTENUATION TO LIMIT FAN NOISE IN OFFICE.
7. PROVIDE HARDWARE R/A CLOTH OVER R/A OPENING.

GENERAL MECHANICAL NOTES:

1. REPLACE THERMOSTATS AS NEEDED. VERIFY WITH OWNER IF THERMOSTATS SHOULD BE MOVED FROM EXISTING LOCATIONS TO NEW LOCATIONS. RELOCATE THERMOSTATS AS REQUESTED BY OWNER.

FAN SCHEDULE

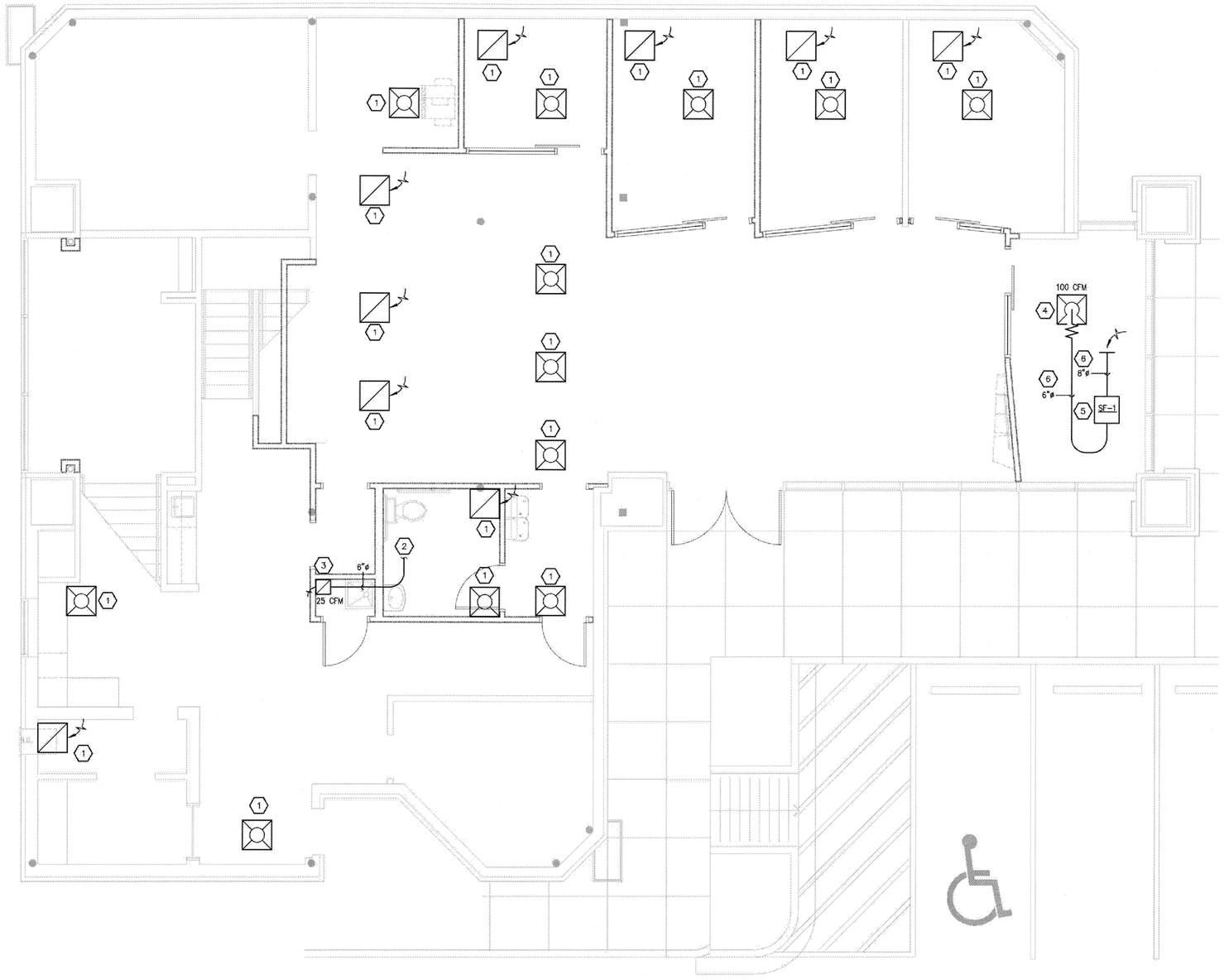
MARK		SF-1
CFM		100
EXTERNAL STATIC PRESSURE		0.25
DRIVE		BELT
ELEC. DATA	VOLTS	115
	PHASE	1
	MOTOR HP	1/6
SONES		3.5
MANUFACTURER		COOK
MODEL No.		70SQNB
LOCATION		CEILING
NOTES		1,2

NOTES:

1. PROVIDE DISCONNECT SWITCH.
2. CONTROLLED BY TIME CLOCK. (SEE ELECTRICAL)

MECH. SYMBOL LEGEND

SINGLE LINE SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	ROUND FLEXIBLE DUCT
	ROUND RADIUS ELBOW
	RECTANGULAR RADIUS ELBOW



1 FLOOR PLAN - HVAC

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

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REVISIONS

DATE: 01.28.13

PROJECT NO: 1220

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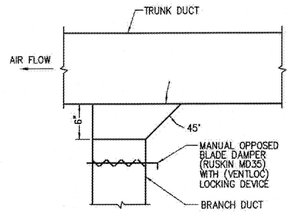
Job Number: 27269

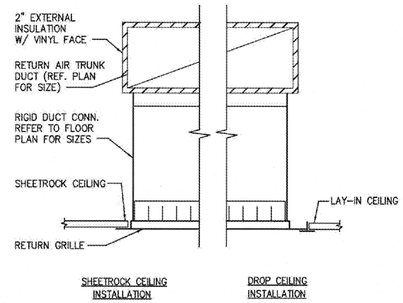
DRAWN	DESIGN	QC	APPD
T.A.D.	T.A.D.	N.P.P.	J.F.T.

FLOOR PLAN - HVAC

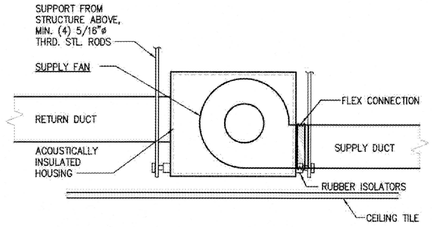
M1.1



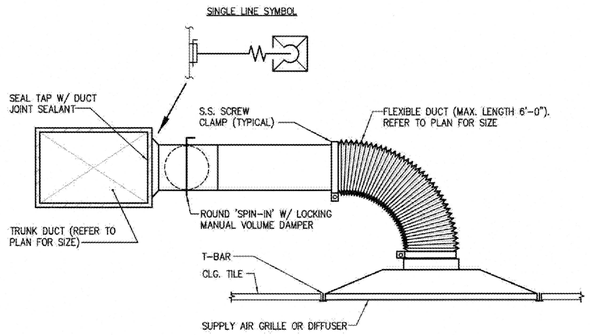
1 BRANCH TAKE OFF
SCALE: NONE



2 RETURN AIR GRILLE DETAIL
SCALE: NONE

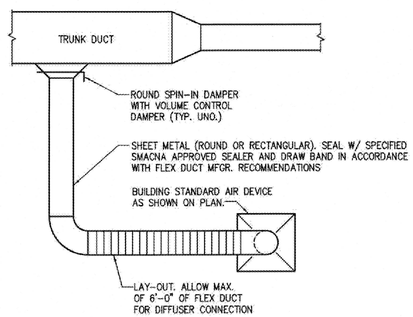


3 IN-LINE SUPPLY FAN DETAIL
SCALE: NONE



4 SPIN-IN & CLG. DIFFUSER DETAIL
SCALE: NONE

NOTE:
1. TAPS/RUNOUTS AS REQUIRED WITH SIZE SCHEDULE.
2. CONTRACTOR TO VERIFY, SIZE, AND QUANTITY



5 DIFFUSER CONNECTION
SCALE: NONE

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DRAWN	DESIGN	QC	APPD
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DETAILS - HVAC

M2.1

SECTION 15000 - MECHANICAL SYSTEMS

GENERAL

1. GENERAL CONDITIONS

A. Conform with applicable provisions of the general conditions, supplementary conditions and the general requirements.

B. Definitions: Furnish means to supply and deliver to project site, ready for installation. Install means to place in position and make connections for service or use. Provide means to furnish and install, complete and ready for intended use.

2. SCOPE OF WORK

A. Provide all labor, equipment, materials, tools, erection, hoisting and incidentals required to provide heating, ventilation, grease exhaust and air conditioning systems.

Provide equipment indicated on the drawings, and as required for a complete functioning system.

3. RULES AND REGULATIONS

A. All work shall comply with state and local code requirements as approved and amended by the governing city. Purchase all permits associated with the work. Obtain all inspections required by code.

B. Where the standards of the drawings and specifications for materials and/or workmanship are higher than the requirements cited above, the drawings and specifications shall take precedence.

4. WARRANTY

A. Provide labor and materials to repair or replace defective parts and materials as required for one year after owner acceptance of the completed project. Provide a separate line item deduct amount on the proposal form to delete warranty service, at the owner's option.

5. COORDINATION

A. Coordinate with the work of other sections, equipment furnished by others, requirements of the owner, and with the constraints of the existing conditions of the project site.

B. Contractor shall execute work so that progress will harmonize with that of other trades, and so that all work may proceed as expeditiously as possible.

C. To the fullest extent possible, the work under this contract has been indicated on the drawings in such positions as to suit and accommodate the work of other trades, but the work as indicated is largely diagrammatic and the final positions of all equipment and materials cannot be indicated. Therefore, the contractor is directly responsible for the correct placement of work and the proper location and connection of work in relation to work of other trades.

6. LOCATION AND SPACE REQUIREMENTS

A. Verify spaces, dimensions, locations, and conditions required for installation of all hvac and related work.

B. Obtain necessary rough-in data and dimensions of fixtures, equipment, tenant furnished equipment, owner furnished equipment, and equipment furnished under other sections.

C. No exposed ducts will be permitted to show on interior of building in finished rooms. Where this would occur, exposed portion shall be furred and plastered, or cased when not adjacent to the wall.

D. Maintain sufficient clearance and accessibility. Interference between work of various trades will be resolved by the architect and owner in consultation with the engineer. Relocate or offset work as required to accommodate work of other trades. Maintain ceiling heights and avoid excessive furring requirements.

E. If not precisely located on drawings, obtain locations of fixtures, equipment, and appliances, from architect and food service equipment supplier. No deviations will be allowed.

7. MEASUREMENTS

A. All dimensions of work of other trades which require verification shall be verified from shop drawings of such work or from actual measurements at building, whichever is the most accurate and practical in the judgment of the contractor, who shall be responsible for the accuracy of such measurements.

PRODUCTS

1. GENERAL MATERIALS

A. All materials shall conform to applicable ashrae and SMACNA standards.

B. Brands of materials mentioned are used as a standard and requests for substitutions will be considered when submitted to the engineer in accordance with the provisions set forth in the supplementary general conditions.

C. Approved equal refers to materials which, in the opinion of the engineer, are similar and equal in all respects to material or method indicated on drawings or as specified. Engineer is not required to prove that a substitute material is not equal to specified material. Contractor shall submit in writing to engineer evidence supporting his contention that substituted material is equal to material shown on drawings or specified. Engineer reserves right to reject materials and workmanship, either before or after installation, that are not shown on drawings or specifications, or substitutions that have not been approved by engineer in writing.

2. DUCTWORK

A. Duct dimensions: Unless otherwise noted, duct dimensions on the drawings are inside clear dimensions.

B. Sheet metal ductwork: Provide sheet metal ductwork fabricated and installed in accordance with ashrae and smacna standards, for 1" w.g. pressure class, seal class "A". Sheet metal shall be galvanized sheet steel of lock forming quality, astm a-525. All angle iron used for support shall be galvanized. Connections to walls or floor shall be air tight with angle iron and caulking. Seal all duct seams, transverse and longitudinal, air tight. Provide turning vanes at all 90° elbows.

C. Round sheet metal duct: Provide spiral seam (all sizes) or snap lock (duct sizes up to 10") galvanized steel complying with smacna standards. Spiral seam ductwork shall have smacna seam type RL-1.

2. DUCTWORK (CONTINUED)

D. Flexible duct: Provide factory assembled class 1 air duct (UL 181) with 1" thick 1 pcf fiberglass insulation and reinforced outer protective cover/vapor barrier. Flexible duct shall meet NFPA 90A with flame spread under 25, smoke developed under 50, and shall be rated for minimum 2" w.g. pressure and 0 to 250°f temperature. Provide screw-operated metal adjustable clamping devices. Use twist-lock conical top collars at connections into sheet metal ductwork. Maximum extended length of flexible duct shall not exceed 6 feet.

E. Duct sealant: Provide polymeric rubber type sealant for use on both interior located ductwork and ductwork exposed to outdoor conditions. Sealer shall have high bonding strength for sure, first time sealing of joints in low, medium, and high pressure duct systems.

3. DUCTWORK ACCESSORIES

A. Flexible duct connectors: Provide UL labeled 30 ounce neoprene coated fiberglass fabric duct connectors.

B. Duct access doors: Provide hinged access doors in ductwork where required for access to equipment. Provide insulated access doors for insulated ductwork. Construct of same or thicker gauge sheet metal as duct in which it is installed. Provide flush frames for uninsulated ducts, and extended frames for externally insulated ducts. Provide continuous hinge on one side, with one handle-type latch for access doors 12" high and smaller, and two handle-type latches for larger access doors.

C. Round volume dampers: Provide minimum 20 gauge galvanized steel frame and blades, minimum 3/8" square steel axle, molded synthetic bearings, with locking position regulator. Regulator shall be positioned with sheetmetal bracket beyond duct covering. Where positioning regulator is not accessible, provide coupling and extension rod with regulator for ceiling or wall installation, as required.

D. Rectangular volume dampers: Provide minimum 16 gauge galvanized steel channel frame, 16 gauge galvanized steel blades, minimum ¼" hexagonal axle, bolded synthetic bearings, with 3/8" square plated steel control shaft. Linkages shall be concealed in the frame. Operating shaft shall extend beyond frame and duct to a locking quadrant with adjustable lever. Maximum blade width shall not exceed 8".

5. DUCT INSULATION

A. Blanket type duct insulation: Provide minimum 1-1/2" thick blanket type fiberglass insulation complying with ASTM C-553, type II, with factory applied kraft banded to aluminum foil, reinforced with fiberglass vapor barrier/jacket. Jacket shall conform to ASTM C-1136, type II.

B. Duct liner: Provide minimum 1" thick, 2 pcf density, neoprene coated, long textile fiber type duct liner, with coating on the air stream side conforming to NFPA 90A. duct liner adhesive shall be as recommended by duct liner manufacturer, and shall comply with ASTM C-916. duct liner fasteners shall comply with smacna "HVAC duct construction standards", latest edition.

C. Concealed conditioned supply and return air ducts shall be insulated with blanket type duct insulation, installed in accordance with insulation manufacturer's installation instructions.

D. Conditioned supply air and return air ducts and plenums exposed to view or where required for acoustical purposes shall be lined with duct liner. Install duct liner in accordance with liner manufacturer's installation instructions.

6. CONTROL SYSTEMS

A. Provide complete control systems, including all instruments, controls, thermostats, temperature sensors, low voltage wiring, transformers, and all necessary appurtenances. Low voltage wiring shall be installed in conduit in accordance with electrical specifications.

EXECUTION

1. TESTING, ADJUSTING, AND BALANCING

A. Test, adjust, and balance all mechanical systems and equipment to ensure proper balance and operation. Perform tests in accordance with NEBB or AABC and ASHRAE standards. Eliminate noise and vibration, and ensure proper function of controls. Submit completed certified test and balance report to owner's representative. Balancing contractor shall be an independent NEBB or AABC certified test and balance contractor. Balance all systems to within 5% of air flows indicated on the drawings, and report all discrepancies to hvac installer for correction. Mark final balance positions on dampers with permanent marker. Final store balance shall be positive with respect to outdoors.

2. VIBRATION AND NOISE

A. Eliminate vibration and noise from the operation of fans, motors and equipment to the extent that they will not be heard outside of the room in which installed. Adjustments and changes to produce satisfactory quietness to be made without expense to owner.

3. OPERATING AND MAINTENANCE MANUALS

A. Provide complete operations and maintenance manuals for all mechanical equipment installed on project. Include index of equipment, directory including supplier telephone numbers, and list of recommended spare parts. Manuals shall be furnished in "d-ring" binders, clearly labeled "Operation and Maintenance Manual for Check Cashiers. Provide 2 copies of each manual. Provide instructions by qualified technician to owner's representative.

4. CLEANING

A. Machinery and apparatus: Thoroughly clean cement and plaster and other materials. Remove grease and oil spots with cleaning solvent. Carefully wipe surfaces clean.

B. Exposed metal work: Carefully clean with steel brush, removing all rust and soiled spots, and provide touch-up paint as required.

C. Final cleaning: Remove all scraps and installation-related debris from area. Leave entire installation area in a neat, clean and ready-to-use condition.

SEQUENCE OF OPERATIONS

A. Seven (7) day time clock start or stops the heating and air conditioning at a pre-determined time set by tenant. Location of the time clock to be coordinated with architect.

B. Cooling Cycle: Room thermostat set on "cooling" position and desired temperature. Fan switch to "auto" position.
Upon a rise in room temperature, thermostat will energize the supply air fan, and the chilled water flow control valve opens.
When the room thermostat is satisfied, the chilled water flow control valve will close and the supply fan will continue to be energized.

C. Heating Cycle: Room thermostat set on "heating" position and desired temperature. Fan switch to "auto" position.
Upon a decrease in room temperature, thermostat will energize the supply air fan, and the hot water flow control valve opens.
When the room thermostat is satisfied, the hot water flow control valve will close and the supply fan will continue to be energized.

Note: BMS contractor is Siemens.
Contact Terry Plunkett 613-218-1000

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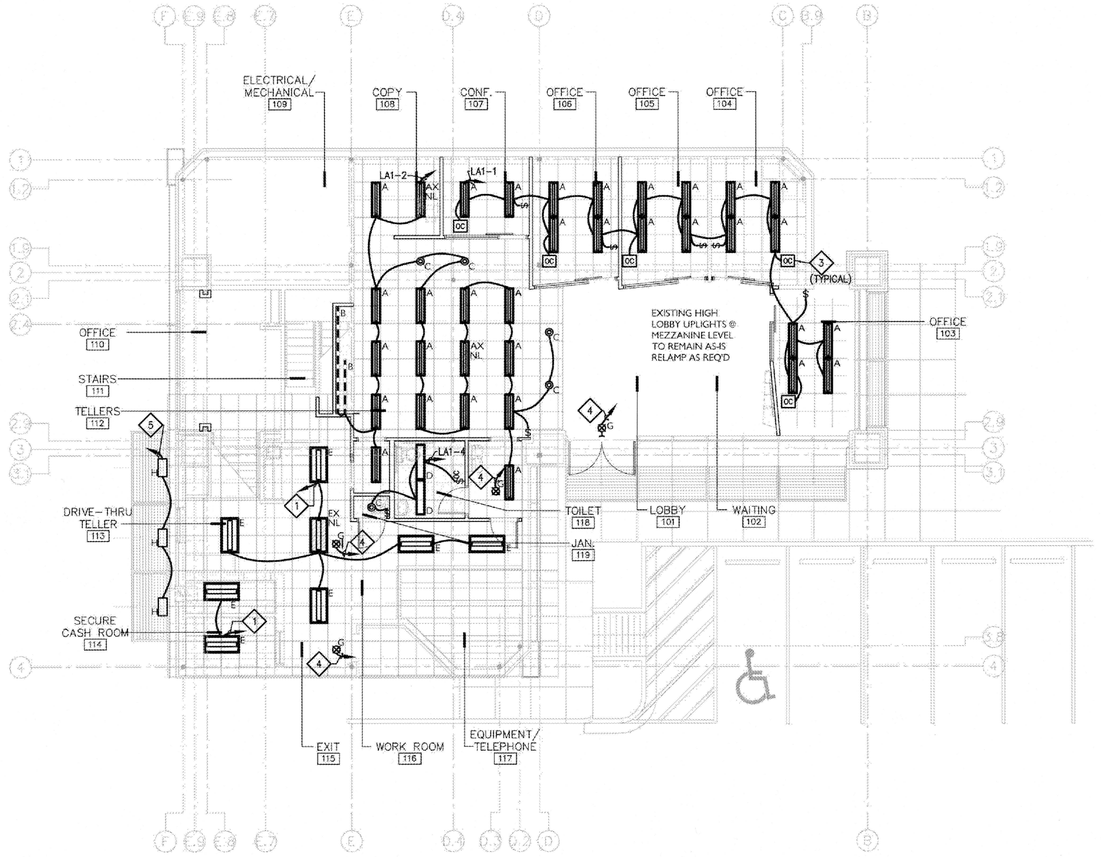
SPECS - HVAC

M3.1



NORTH

1 LIGHTING PLAN

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

GENERAL NOTES

1. FIXTURES THAT ARE HATCHED & DENOTED BY SUFFIX 'X' ARE EMERGENCY BATTERY FIXTURES AND NIGHT LIGHTS. CONNECT FIXTURE & BATTERY UNSWITCHED TO PHASE CONDUCTOR AHEAD OF ALL SWITCHES/RELAYS.
2. NO MC CABLE EXCEPT FOR LIGHTING WHIPS.
3. ALL CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF A LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
4. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR GUIDANCE AND VERIFICATION OF DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, AND LOCATION OF DUCTWORK, PIPES, EQUIPMENT, CABINET WORK, AND FURNITURE.
5. INSTALL WALL LIGHTING FIXTURES, WALL SWITCHES, WALL OUTLETS, AND OTHER WALL MOUNTED EQUIPMENT IN STRICT COORDINATION WITH DETAILS, SECTIONS, ELEVATIONS, AND ROOM FINISHES SHOWN ON ARCHITECTURAL DRAWINGS.
6. REFER TO ARCHITECTURAL FOR ADDITIONAL SCOPE OF DEMOLITION/WORK.
7. PROVIDE ALL FIRE ALARM DEVICES REQUIRED BY NFPA 70 & AHJ WHETHER SHOWN ON PLAN OR NOT. RELOCATE EXISTING FIRE ALARM DEVICES AS REQUIRED. CONFIRM COMPARABILITY WITH EXISTING SYSTEM, CONFIRM EXISTING SYSTEM HAS CAPACITY FOR NEW DEVICES.
8. CIRCUIT ALL EXIT SIGNS & EMERGENCY BATTERIES AHEAD OF ALL SWITCHES/RELAYS.

ELECTRICAL NOTES BY SYMBOL "◇"

◇1 CIRCUIT THROUGH EXISTING CIRCUIT & EXISTING LIGHT SWITCH(ES) SERVING THIS AREA. RELOCATE SWITCHES AS REQUIRED TO ACCOMMODATE NEW FLOOR PLAN. CONFIRM CIRCUIT IS NOT LOADED TO MORE THAN 80% RATED CIRCUIT BREAKER CAPACITY.

◇2 CIRCUIT TO EXISTING CIRCUIT SERVING EXISTING LIGHTING OVER LOBBY. CONFIRM LOAD DOES NOT EXCEED 80% RATED CIRCUIT BREAKER CAPACITY.

◇3 CEILING MOUNTED OCCUPANCY SENSOR SHALL BE LOCATED IN FRONT CORNER OF OFFICE/ROOM ADJACENT TO WALL WITH DOOR, ON OPPOSITE SIDE OF WALL AS DOOR, AS SHOWN TO ELIMINATE FALSE-SENSORING WHEN DOOR IS LEFT OPEN. SENSOR SHALL BE MOUNTED IN CEILING CENTERED IN CORNER-MOST CEILING TILE (I.E. CENTER OF TILE AS INSTALLED). CEILING MOUNTED OCCUPANCY SENSOR SHALL BE CMR-PDT-10 AS SCHEDULED WITH MAXIMUM RANGE OF 28'. LINE-VOLTAGE OVERRIDE-OFF WALL SWITCH SHALL BE LOCATED ADJACENT TO OPEN DOOR AS SHOWN (NOT BEHIND DOOR). TYPICAL ALL GLASS-FRONT OFFICES/ROOMS.

◇4 CIRCUIT EXIT SIGN TO EXISTING EXIT SIGN CIRCUIT.

◇5 CIRCUIT NEW WALL PACKS TO EXISTING POLE LIGHTING CIRCUIT. CONFIRM CIRCUIT IS NOT LOADED TO MORE THAN 80% RATED CIRCUIT BREAKER CAPACITY.

LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION
$	WALL SWITCH S.P.S.T. MNTD. 48" AFF
$3	WALL SWITCH 3-WAY MNTD. 48" AFF
$D	WALL SWITCH DIMMABLE 48" AFF
$OC	WALL SWITCH WITH OCCUPANCY SENSOR MNTD. 48" AFF SENSORSWITCH WSD-PDT SET TO 10 MINUTES
$2OC	WALL SWITCH WITH OCCUPANCY SENSOR MNTD. 48" AFF – 2 POLE WITH 2 BUTTON SENSORSWITCH WSD-PDT-2P SET TO 10 MINUTES
OC	CEILING MOUNTED OCCUPANCY SENSOR WITH EXTENDED RANGE 360° FIELD OF VISION SENSORSWITCH CMR-PDT-10 SET TO 10 MINUTES – INSTALL CENTERED IN CLG TILE
	HOME RUN
	BURIED/UNDERGROUND/UNDER SLAB CONDUIT/CABLE
SD	SMOKE DETECTOR, TO MATCH EXISTING SMOKE DETECTORS
F	CEILING MOUNTED HORN/STROBE (WHEN SHOWN ON CEILING PLAN), TO MATCH EXISTING CEILING MOUNTED HORN/STROBES

NOTE: ALL SYMBOLS ARE NOT NECESSARILY USED.
NOTE: LEAVE INSTRUCTIONS FOR OWNER TO REPROGRAM ALL OCCUPANCY SENSORS & NOTIFY OWNER'S PROPERTY MANAGER LOCATION OF INSTRUCTIONS.

LIGHTING FIXTURE SCHEDULE

KEY	SYMBOL	MANUFACTURER/ PRODUCT	LAMPS	DESCRIPTION	V/A	VOLTS
A		H.E. WILLIAMS, INC. HET G-S14-132-A-EB1-120	32W T8 SPEC 35	1X4 INDIRECT FLUORESCENT	29	120
AX		H.E. WILLIAMS, INC. HET G-S14-132-A-EB1-EM500-EB1-120	32W T8 SPEC 35	1X4 INDIRECT FLUORESCENT EMERG. BALLAST,/ 24 HR. CIRCUIT	29	120
B		DANALITE L2-3C-W	3000K WARM WHITE LED ARRAY	RECESSED STRIP LED BEHIND TELLER	20	120
C		EDISON PRICE LIGHTING BFX 213/8-120-WOL	(2) 13W 4 PIN	COMPACT FLOURESCENT	26	120
D		H.E. WILLIAMS, INC. DI-G-S14-232-AD-EB2-UNV-DFK	(2) T8-32W SPEC 35	1X4 DIRECT/INDIRECT DRYWAY CEILING	58	120
E		H.E. WILLIAMS, INC. DI-G-S24-232-AD-EB2-UNV	(2) T8-32W SPEC 35	2X4 DIRECT/INDIRECT	58	120
EX		H.E. WILLIAMS, INC. DI-G-S24-232-AD-EM500-EB2-UNV	(2) T8-32W SPEC 35	2X4 DIRECT/INDIRECT, EMERG. BALLAST,/ 24 HR. CIRCUIT	58	120
G		EELP UR-EDGR-1-G-C-EM	LED ARRAY	EXIT FIXTURE W/ EMERG. BAL. ON 24 HR. CIRCUIT. REFER PLAN FOR FACES & CHEVRONS	5	120
H		PHILIPS GARDCO 101-MT-100MH-UNIV-NP	(1) 100W MH	PERFORMANCE SCONCE ON EXTERIOR	114	208
J		KIM 1A-EKG401-250MH-208-DBE PSSK-16A-DBE 16' POLE	(1) 250W MH	AREA LIGHT TO MATCH EXISTING	250	208

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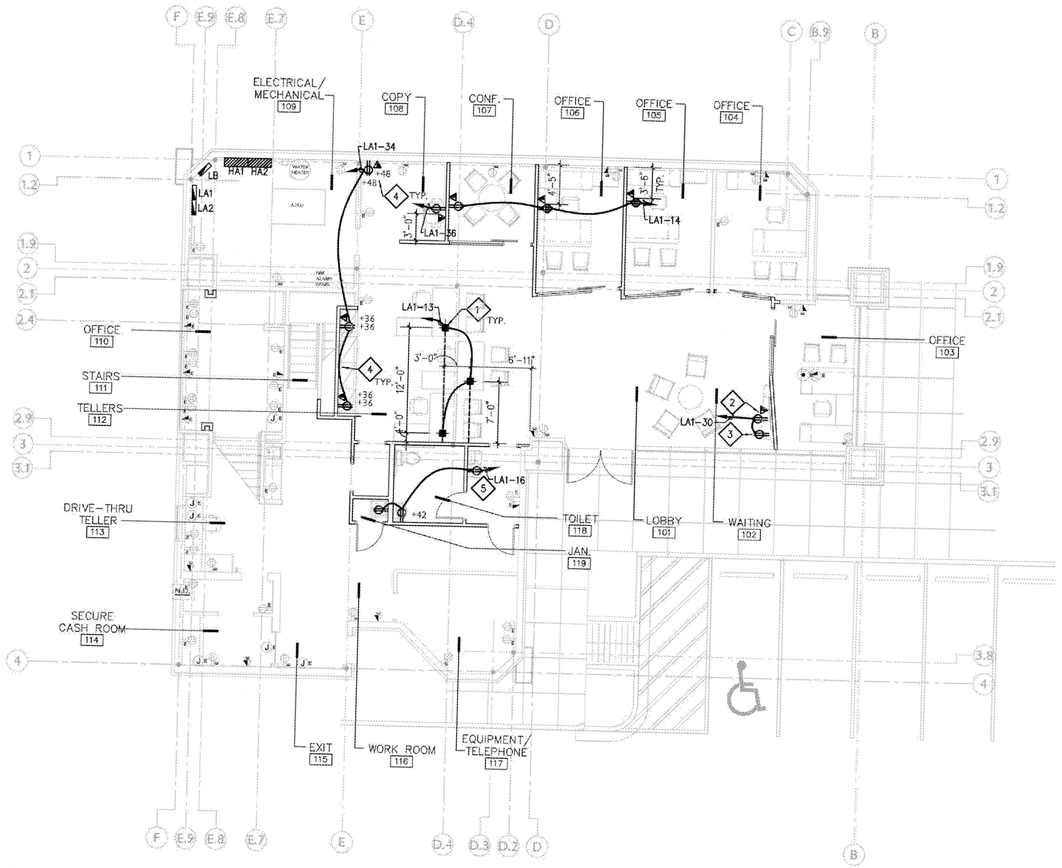
DRAWN W.M.G. DESIGN W.M.G. QC T.N.M. APPD T.N.M.

LIGHTING PLAN

E1.1



POWER SYMBOL LEGEND

SYMBOL	DESCRIPTION
$	WALL SWITCH S.P.S.T. MNTD. 48" AFF
$M	120V MANUAL MOTOR STARTER WITH OVERLOAD HEATER
J	JUNCTION BOX – SIZE AND MOUNTING AS REQUIRED
	DUPLEX RECEPTACLE NEMA 5-20R + 18" AFF UNLESS NOTED OTHERWISE
	QUAD RECEPTACLE
	EXISTING RECEPTACLE TO REMAIN
	EXISTING QUAD RECEPTACLE TO REMAIN
	EXISTING JUNCTION BOX TO REMAIN
	EXISTING PHONE/DATA TO REMAIN
	4 PORT OUTLET – REF COM PLANS FOR NUMBER OF PHONE/DATA (2x4 BOX WITH 3/4" CONDUIT TO CEILING SPACE WITH PULL STRING)
	FLOOR RECEPTACLE – DUPLEX
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	HOME RUN
	BURIED/UNDERGROUND/UNDER SLAB CONDUIT/CABLE
	ELECTRICAL PANEL
F	FIRE ALARM PULL STATION, TO MATCH EXISTING PULL STATION
F	FIRE ALARM HORN STROBE, TO MATCH EXISTING HORN STROBES
F	FIRE ALARM STROBE, TO MATCH EXISTING STROBES

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR– DESIGNATES MOUNTING HEIGHT
EMT	ELECTRICAL METALLIC TUBING CONDUIT
WP	WEATHER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND

NOTE: ALL SYMBOLS ARE NOT NECESSARILY USED.

NORTH 1 POWER PLAN

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

GENERAL NOTES

1. VERIFY EXACT LOCATION OF ALL POWER, DATA, AND VOICE (TELEPHONE) OUTLETS WITH ARCHITECTURAL DRAWINGS. COORDINATE DISCREPANCIES WITH THE ARCHITECT. COORDINATE FINISH COLORS OF ALL DEVICES WITH THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES AND REQUIREMENTS FOR VOICE AND DATA OUTLETS, CABLING, ETC.
2. REFER TO ARCHITECTURAL ELEVATIONS TO DETERMINE ORIENTATION OF ABOVE COUNTER RECEPTACLES, I.E. HORIZONTAL OR VERTICAL.
3. CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND PLUMBING EQUIPMENT, SIZES, AND LOCATIONS WITH MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE REQUIRED DISCONNECT SWITCHES, FUSES, CIRCUIT BREAKERS, BRANCH CIRCUITS, FEEDERS, ELECTRICAL EQUIPMENT AND DEVICES, AND WIRING REQUIRED FOR PROPER OPERATIONS.
4. REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR GUIDANCE AND VERIFICATION OF DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, AND LOCATION OF DUCTWORK, PIPES, STRUCTURAL STEEL, EQUIPMENT, CABINET WORK, AND FURNITURE.
5. PENETRATIONS OF STRUCTURAL ELEMENTS, WALLS, FLOORS, AND ROOFS FOR THE PASSAGE OF RACEWAYS SHALL BE APPROVED BY THE ARCHITECT. ALL PENETRATIONS SHALL BE PROPERLY SEALED AFTER INSTALLATION SO AS TO MAINTAIN THE INTEGRITY OF THE SYSTEM PENETRATED.
6. INSTALL WALL LIGHTING FIXTURES, WALL SWITCHES, WALL OUTLETS, AND OTHER WALL MOUNTED EQUIPMENT IN STRICT COORDINATION WITH DETAILS, SECTIONS, ELEVATIONS, AND ROOM FINISHES SHOWN ON ARCHITECTURAL DRAWINGS.
7. PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT UNLESS OTHERWISE NOTED.
8. DEMOLISH ALL DEVICES ON DEMOLISHED WALLS BACK TO SOURCE.
9. NO MC CABLE EXCEPT FOR LIGHTING WHIPS.
10. CIRCUIT EXHAUST FAN IN OFFICE 103 TO LA1-1 THROUGH TIMECLOCK. SET TIMECLOCK TO BUSINESS HOURS.
11. NO PVC ALLOWED IN PLENUM ABOVE CEILING. ALL EQUIPMENT IN PLENUM SHALL BE PLENUM RATED.

ELECTRICAL NOTES BY SYMBOL "◇"

1. RECESSED FLOOR BOX WITH CONDUITS & PULL STRINGS FOR VOICE /DATA & POWER PROVIDE FLUSH COVER TO ALLOW HARD SURFACE FLOOR COVERING. TO BE INSTALLED OVER BOX UNTIL CONDUCTORS ARE INSTALLED.
2. PROVIDE WALL MOUNTED SINGLE GANG BOX FOR CABLE TV. CABLE NEXT TO 120V OUTLET FOR MILLWORK MOUNTED TV. OUTLETS SHALL BE AT 60" A.F.F.
3. PROVIDE DUPLEX OUTLET AT 24" A.F.F. INSIDE MILLWORK.
4. REFER TO ARCH ELEVATIONS FOR OUTLET LOCATIONS.
5. RECEPTACLE SHALL BE CONCEALED BEHIND UNIT.

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STATE OF TEXAS
JAMES F. TURNER, II
43679
LICENSED PROFESSIONAL ENGINEER
01/28/13

REVISIONS

DATE: 01.28.13
PROJECT NO: 1220
ISSUED FOR: PERMIT, PRICING, & CONSTRUCTION

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GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
Addison, TX 75001

POWER PLAN

E2.1

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Dallas, Texas 75231
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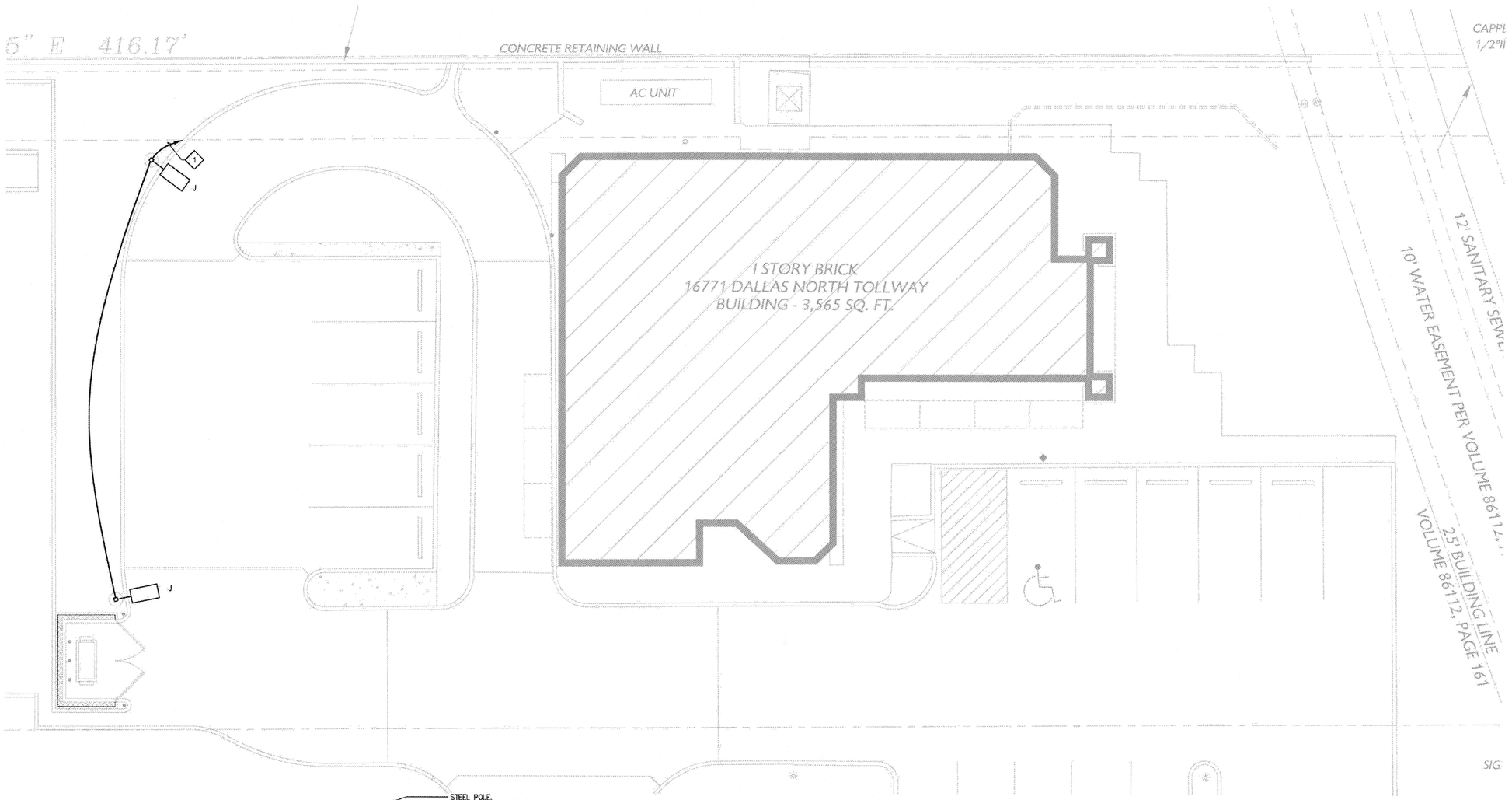
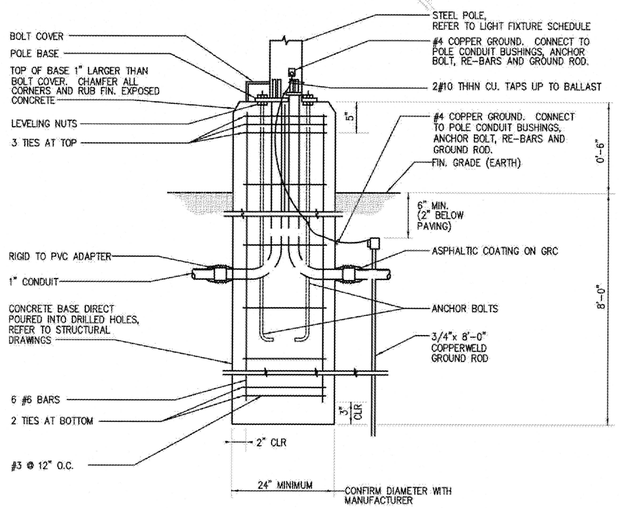
FAX. 214-750-0902
TX REGISTRATION # 10249
Job Number: 2736.9
DRAWN W.M.G. DESIGN W.M.G. QC T.N.M. APPD T.N.M.



NORTH

1 SITE LIGHTING PLAN

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



2 POLE BASE DETAIL

SCALE: NONE

ELECTRICAL NOTES BY SYMBOL "◇"

◇1 CIRCUIT NEW WALL PACKS TO EXISTING POLE LIGHTING CIRCUIT. CONFIRM CIRCUIT IS NOT LOADED TO MORE THAN 80% RATED CIRCUIT BREAKER CAPACITY. PROVIDE CONCRETE BASE TO MATCH EXISTING POLE BASES.

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1/25/13

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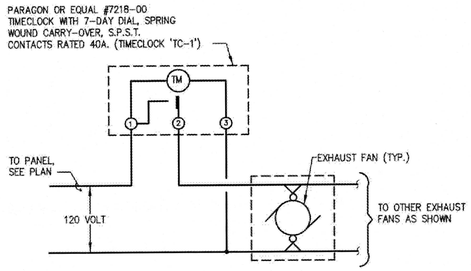
DRAWN W.M.G. DESIGN W.M.G. QC T.N.M. APPD T.N.M.

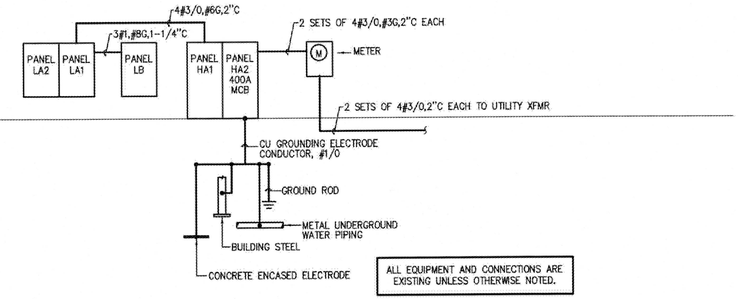
SITE LIGHTING PLAN

E3.1



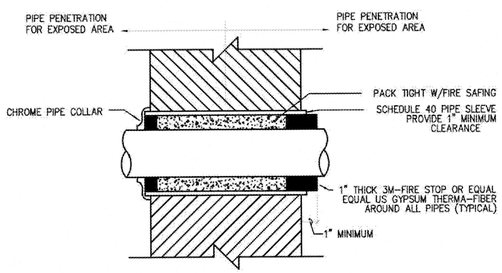
2 TIMECLOCK FOR EXHAUST FAN DETAIL

NO SCALE



1 RISER DIAGRAM

NO SCALE



3 FIRE RATED PENETRATION DETAIL

NO SCALE

PANELBOARD LA1 — 225 A MLO — LOCATION: ELECTRICAL/MECHANICAL
208Y/120; 3-PHASE /4 WIRE — 225 MAIN BUS — MOUNT: SURFACE
WITH EQUIPMENT GROUND BUS — 100% NEUTRAL BUS — TYPE: NEMA 1
42 kAIC BUS AND BRACING

L	R	M	O	C.B.	POLE	LOAD AREAS AND LOCATION	# A	# B	# C	LOAD AREAS AND LOCATION	POLE	C.B.	O	M	R	L
512		510		20/1	1	* LTG - OFFICE AREA + EF				* LTG - TELLER AREA	2	20/1				1128
				20/1	3	QUARTZ LTS MEZZANINE				* LTG - MISC AREAS	4	20/1				212
				20/1	5	UNDER COUNTER LTS				CANOPY LTS	6	20/1				
				20/1	7	SPARE				CANOPY LTS	8	20/1				
				20/1	9	OFFICE LIGHTS				PANEL LB	10	100/2				
					11					-	12	-				
	1080			20/1	13	* FLOOR BOXES				* OFFICE RECEPTS	14	20/1			900	
				20/1	15	PLUG DI TELLER				** EWC / JAN/ RR	16	20/1	420		360	
				20/1	17	PLUG DI TELLER				NORTH OFFICE	18	20/1				
				20/1	19	PLUG DI TELLER				EQUIPMENT RECEPTS NORTH	20	20/1				
				20/1	21	CCTV PLUG NORTH				DRIVE IN LANES	22	20/1				
				30/1	23	DRIVE IN LANES				DRIVE IN LANES	24	30/1				
				30/1	25	DRIVE IN LANES				DRIVE IN LANES	26	30/1				
				20/1	27	DRIVE IN LANES				1ST FLOOR RR LTS/PLUG	28	20/1				
				20/1	29					* LOBBY TV/MILWORK	30	20/1			360	
				20/1	31					* FRONT OFFICE FAN	32	20/1		510		
				20/1	33					* COPY/LOBBY	34	20/1			540	
				20/1	35					* COPIER	36	20/1	1200			
				20/1	37						38	20/1				
				20/1	39						40	20/1				
				20/1	41						42	20/1				

						CONNECTED 3ø LOAD CALCULATIONS
CONNECTED Kva 3ø		DEMAND	AMPS		4.6	TOTAL kVA (øA) = 38.6 AMPS
LIGHTING	1.9	1.9	100%	5.1	PER NEC 220.42	1.5	TOTAL kVA (øB) = 12.8 AMPS
RECEPTACLE	3.2	3.2	100%	9.0	PER NEC 220.44	1.6	TOTAL kVA (øC) = 13.0 AMPS
MOTOR	1.0	1.0	100%	2.8		21.5	TOTAL CONNECTED 3ø AMPS
OTHER	1.6	1.6	100%	4.5	PER NEC 220.51 - 220.60	25.8	NEUTRAL AMPS
SPARE	15.0	15.0	100%	41.6		120%	IMBALANCE
TOTAL	22.7	22.7		63.1			
FEEDER AMPACITY ADJUSTMENTS							
LIGHT AMPS				1.3			
MOTOR AMPS				1.1			65 MINIMUM FEEDER AMPS

REMARKS: * INDICATES NEW LOAD, CIRCUIT MADE AVAILABLE BY SCOPE OF DEMO. CONFIRM CIRCUIT AVAILABILITY.
** INDICATES NEW GFCI CIRCUIT BREAKER, CIRCUIT MADE AVAILABLE BY SCOPE OF DEMO. CONFIRM CIRCUIT AVAILABILITY.

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STATE OF TEXAS — JAMES F. TURNER, II — 43679 — LICENSED PROFESSIONAL ENGINEER — 01/28/13

REVISIONS

DATE: 01.28.13

PROJECT NO: 1220

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DRAWN W.M.G. | DESIGN W.M.G. | QC T.N.M. | APPD T.N.M.

ELECTRICAL RISER & PANELS

E4.1

SECTION 16000
ELECTRICAL SPECIFICATIONS

GENERAL

1. GENERAL CONDITIONS:

A. The General Conditions, Supplementary Conditions and Special Conditions are a part of this contract and apply to this section as fully as if repeated herein.

2. SCOPE:

A. This section of specifications includes, but is not limited to:

B. All labor, tools, appliances, materials and equipment required to furnish and install the complete installation shown on the drawings for this section of the work and/or in the following specifications, including that which is reasonably inferred.

3. CODES AND REGULATIONS:

A. All work and materials shall be in accordance with applicable requirements of public authorities having jurisdiction and utilities furnishing services.

B. Codes governing this work include but are not limited to the latest approved edition of the following:

C. National Fire Protection Association's National Electrical Code (NEC).
California Administrative Codes, Title 8 and Title 24 (In California only)
Occupational Safety and Health Act (OSHA).
Local Ordinances and Regulations.

4. STANDARDS:

A. Electrical material and equipment shall have been tested and listed or labeled as conforming to approved published standards by Underwriters Laboratories where such listing or labeling service is available for the class of materials or equipment. Where applicable, listing or labeling shall apply to the complete assembled equipment and not to the components alone.

5. SUBMITTALS:

A. Three copies of materials list, shop drawings and data sheets shall be submitted to Owner's Construction Manager for review. Submittals shall be made and favorable review secured before material and equipment is installed.

B. Materials list shall include fixtures, switchgear, panels, devices, wireways, disconnects, lamps and all other specified or unspecified standard cataloged materials to be used. The list shall include manufacturer, type and such other descriptive data as may be required to determine the acceptability of each item.

C. Shop drawings and data sheets for equipment and systems shall be submitted where required in the specification for those items. Include information on each component, wiring diagrams, layouts, dimensions and sufficient other data to establish compliance with the specifications and acceptability of the equipment or system.

6. PERMITS AND DRAWINGS:

A. Permits and inspections shall be by the General Contractor.

7. AS-BUILT DRAWINGS:

A. On a set of contract drawings, kept at the site during construction, mark all work that is installed differently from that shown, including any revised circuitry, material or equipment. Upon conclusion of work, deliver to Owner's Construction Manager a set of signed and dated "as-built" drawings.

8. GUARANTEE:

A. All work shall be guaranteed for a minimum period of one year from the date of acceptance by the Owner. The guarantee period for certain items shall be longer, as indicated in the specification for those items.

B. Should any malfunction develop during the guarantee time period due to defective material, faulty workmanship, or noncompliance with plans, specifications, codes or directions of the Owner, Architect, Engineer or Inspector, the Contractor shall furnish all necessary labor and materials to correct the malfunction without additional charges.

PRODUCTS

1. CIRCUIT BREAKERS:

A. Circuit breakers shall be by the same manufacturer that furnishes the main service equipment and panelboards.

B. Breakers shall be molded case bolt-on type. Clamp-on, push-on, or plug-in types are not acceptable. Removable handle ties and dual, quad or tandem breakers are not acceptable. Mounting hardware, accessories, faceplates and enclosures shall be provided as necessary for the intended use.

C. Short circuit interrupting capacity shall be as indicated on the plans and shall in no case be less than 10,000 rms symmetrical amps at the applied voltage.

2. WIRE AND CABLE:

A. Wire and cable for use on systems of 50 volts to 600 volts shall be 600 volt rated type THW or THHN for branch circuits. Feeders shall be THHN.

B. Wire and cable for use on systems of below 50 volts shall be 300 volt PVC insulated and suitable for the class of wiring except as otherwise indicated or specified.

C. All conductors shall be copper, type THHN.

3. RECEPTACLE OUTLETS:

A. Receptacle outlets shall be standard NEMA configuration, grounding type.

B. General convenience outlets shall be 20 amp, 125 volt, 2 pole, 3 wire grounding. Outlets shall be UL listed and verified to meet Federal Specification W-C-596-c and NEMA heavy duty performance tests.

C. Special outlets, not listed above, shall be standard NEMA configuration for the application shown and shall be of equivalent grade and quality to those listed above. An approved cord cap or plug shall be furnished with each receptacle outlet except general convenience type. Plug shall be of the same grade, quality and manufacturer as the outlet.

4. DEVICE & BOX COVER PLATES:

A. Provide a plate for each outlet, receptacle, switch, device and box.

B. All plates for exterior use shall be listed and labeled "Suitable for Wet Location while in Use".

C. Ganged devices shall have gang plates exactly matching the arrangement and quantity of devices.

D. Special plates, engraving or application shall be as indicated on the drawings or otherwise specified.

E. All devices shall be NEMA gray, all coverplates shall be brushed stainless.

5. OUTLET AND JUNCTION BOXES:

A. The size of each outlet or junction box shall be determined by the number and sizes of wires and conduits entering the box, per NEC, but shall be not less than 4-inch square and 1-1/2 inches deep unless otherwise noted.

B. Outlet and junction boxes for interior use shall be galvanized, one-piece pressed or welded steel, knockout type, except where other types of boxes are indicated or specified. In masonry or concrete construction waterproof boxes manufactured for that purpose shall be used. Plastic, fiber or composition boxes will not be permitted.

C. Outlet and junction boxes for surface exterior use shall be cast boxes, Crouse-Hinds FS type, or approved equivalent.

6. CONDUITS AND FITTINGS:

A. Standard weight rigid metal conduit shall be hot dipped galvanized. All fittings shall be of the screw thread type. Couplings, locknuts, bushings, etc., shall be hot dipped galvanized.

B. Electrical metallic tubing (EMT) shall be galvanized. Couplings and connectors shall be galvanized. Fittings shall be compression type with gland sealing rings or set screw type.

C. Flexible conduit shall be galvanized steel or aluminum. Where used in damp or wet locations flexible conduit shall be of the liquid-tight type with outer neoprene jacket and suitable liquid-tight fittings.

D. Rigid nonmetallic conduit shall be PVC Schedule 40, U.L. approved. All couplings, fittings, solvent cement, etc..

8. LIGHTING FIXTURES AND LAMPS:

A. Fixtures shall be complete with all required accessories and equipment, including lamps, necessary for a complete installation. Contractor shall receive, unpack, assemble and install fixtures indicated as being furnished by others.

B. Fluorescent ballasts shall be CBM, ETL approved, high power factor "P" rated with a sound rating of "A". Ballasts for interior use shall be high frequency electronic type with a THD of less than 20%. Fixtures shall comply with local lighting codes.

C. 4' fluorescent lamps shall be F32T8 type by Phillips, GE or Sylvania, color as indicated on plans. All A-type lamps shall be 130 volt.

D. Verify the ceiling or wall construction, voltage and the mounting requirements of each fixture and provide plaster frames, special flanges, concrete pour housings, boxes, brackets, adapters, hangers, stems, canopies, special ballasts or lenses and other materials necessary to properly purchase and mount the fixture.

E. Submit shop drawings on all fixtures as required under Submittals'. "Shop Drawings" may be catalog data sheets if complete information including mounting hardware is shown and identified. Shop drawings shall include mounting details and show compatibility with the ceiling or other equipment.

9. PHOTO ELECTRIC SWITCHES:

A. Photo electric switches and photo controllers shall be Honeywell. Type of mounting, poles, voltage, wattage rating and arrangement shall be as shown on plans.

B. Submit shop drawings as required under "Submittals". Catalog sheets will be adequate if all information is shown.

10. PANELBOARDS:

A. Panelboards shall be factory assembled circuit breaker type by Square-D. The number of poles, type, voltage and ampere ratings shall be as indicated on the drawings. Bussing shall be aluminum.

B. Neutral wires shall be connected to a common neutral bus with binding screws or lugs. The neutral bus shall be insulated from the cabinet. Ground wires shall be connected to a common equipment ground bus with binding screws or lugs. The ground bus shall be bonded to the cabinet.

C. Cabinets shall be flush mounted. Cabinets shall be constructed of galvanized steel conforming to UL and NEC standards.

D. Fronts of cabinets shall be not less than 12 gauge steel fastened with screws in countersunk washers, or with approved concealed spring clamps. Cabinet fronts shall have hinged lockable doors with milled keys (all panels shall be keyed alike) and circuit schedule holders with clear plastic windows. Provide typewritten schedules in holders and submit copies for record purposes. Doors shall be fastened to trim with full length flush hinges. Panel fronts shall be shop painted with 2 coats of primer and a finish coat of gray enamel.

E. Special panelboard construction or features shall be as shown on drawings. For circuit breakers, contactors and other equipment to be included as an assembled part of the panelboard, refer to the paragraph where those items are specified.

F. All conductor terminals and equipment enclosures shall be U.L. listed for use with minimum 75° C. rated conductors.

G. Panelboard directory for each panel shall be neatly typed indicating actual load for each branch circuit.

H. Provide signage for all panelboards & switchboards warning qualified persons of potential flash hazard as required in N.E.C. 110.16

11. DISCONNECT SWITCHES:

A. Switches shall be by Square-D.

B. Switches and enclosures shall be general duty. They shall be externally operated, quick-make, blade type, of numbers of poles and rating indicated or required.

C. Enclosures shall be NEMA 1 for dry, interior locations and NEMA 3R for damp, wet or exterior locations. Finish shall be ANSI 61. Covers shall have a defeatable interlock. Operating handles shall be padlockable.

D. Short circuit withstand ratings shall be 200,000 rms symmetrical amps.

E. Switches shall accept fuses of the rating and UL or NEMA class indicated.

F. Submit data sheets of the disconnect switches as required under "Submittals".

G. All conductor terminals and equipment enclosures shall be U.L. listed for use with minimum 75° C. rated conductors.

12. SNAP SWITCHES:

A. AC general use snap switches shall be toggle handle, quiet operating, premium or heavy duty specification grade, UL listed and verified to meet Federal Specification W-S-896-d and NEMA heavy duty tests. Color shall be gray.

B. All switches shall be rated 120/277 volts. For the 20 amp size, HP ratings shall be 1 for 120V and 2 for 240V.

C. Switches shall be as listed below:

1. 20A SPST – Hubbell 1221, Leviton 1221 or P & S 521

D. Switches required but not listed shall have equivalent quality as those listed above.

13. NAMEPLATES AND LABELS:

A. Nameplates shall be provided for circuit breakers in the main switchboard, switches, and to identify each panelboard and similar items which are furnished or installed under this section.

B. Nameplates shall be engraved laminated plastic with characters cut through the black top layer to white layer below.

EXECUTION

1. INSTALLATION AND CONNECTION OF ELECTRICAL EQUIPMENT:

A. Equipment furnished by others shall be completely connected to the electrical system except as noted on the drawings. All fuses, breakers and disconnects shall be provided as necessary for proper protection. Provide all flexible conduit, boxes, fittings, receptacles, cords, plugs and other material required for proper installation. Refer to manufacturer's directions where applicable.

2. INSTALLATION OF CONDUIT:

A. Standard weight rigid metal conduit shall be used where exposed to the weather, placed underground below concrete slab, in concrete or masonry construction in contact with earth, and where shown on the plans.

B. Galvanized steel electrical metallic tubing shall be used in above ground, interior, dry locations protected from weather and physical damage, and may be used in concrete or masonry construction not in contact with earth.

C. Flexible metallic conduit "MC" shall not be used in project.

D. Liquidtight flexible metal conduit shall be used for final electrical connections to roof top or other equipment exposed to the environment.

E. Rigid nonmetallic conduit may be used for all underslab or underground work in place of standard weight rigid metal and where specifically specified. All runs of rigid nonmetallic conduit shall contain a separate green ground wire adequately sized for service intended. Where required to continue above slab, stub nonmetallic conduit 6" above slab then make proper transition to metal conduit.

F. All rigid steel conduit installed in the ground shall be wrapped with Hunt's Process No. 3, PVC coated or encased in 3" concrete on all sides.

G. The minimum sizes of conduit shall be code size for the number and size of conductors, unless a larger size is shown, in which case such larger size shall be used.

H. Where portions of raceways or sleeves enter areas such as cold storage or where passing from the interior to the exterior of a building, the raceway or sleeve shall be filled with an approved material to prevent the circulation of warm air to a cooler section of the raceway or sleeve.

3. INSTALLATION AND CONNECTION OF WIRING:

A. No "BX" type conductor/flex conduit or Romex cable will be permitted. All wiring shall be installed in conduit, wireways, or gutters, except where other raceway systems or methods are specifically shown.

B. Clean out and dry all conduit and wireways before pulling any wires. Use no lubricant except as recommended by the wire or cable manufacturer.

C. Make all connections and splices necessary to properly complete the electrical wiring. Connections and splices shall be made only in pull, junction or outlet boxes, or in switchboards, wireways or panels having sufficient code sized gutter space. Connections and splices in wires smaller than No. 6 AWG shall be made with spring type connectors, and in wires No. 6 AWG and larger shall be made with compression, vise type, or split bolt solderless connectors, insulated and taped.

4. GROUNDING:

A. Make good mechanical and electrical contact at all poles, panelboards, switchboards, outlet boxes, junction boxes, and wherever the conduit run is connected. Permanently and effectively ground all conduit, fixtures, motors and other equipment as required by all applicable codes, regulations and standards.

B. Equipment grounding conductors shall comply with NEC Article 250 for types, sizes, and quantities of equipment grounding conductors, except where specific types, larger sizes, or more conductors than required by NEC are indicated.

C. Install equipment grounding conductor with circuit conductors of the items below in addition to the required by Code:
a. Feeders and branch circuits.
b. Single-phase motor or appliance branch circuits.
c. Three-phase motor or appliance branch circuits.
d. Flexible raceway runs.
e. Armored and metal-clad cable runs.

D. Install an equipment-grounding conductor in nonmetallic raceways unless they are designated for telephone or data cables.

E. For telephone, alarm, voice and data, and other communications systems, provide a No. 4 AWG minimum insulated grounding conductor in raceway from grounding-electrode system to each service location, terminal cabinet, wiring closet, and central equipment location.

5. CLEANING AND PROTECTION OF PRODUCTS AND PREMISES:

A. At frequent intervals during the time of construction, the Contractor shall clean up after his work and remove his debris from the premises, leaving the building and grounds clean to the Owner's satisfaction.

B. The Contractor shall take all necessary precautions to protect all materials, equipment and property, whether electrical or not, from damage as a result of his work.

8. CHECKING AND TESTING OF EQUIPMENT AND SYSTEMS:

A. Systems shall be tested for short circuits, open circuits and wrong connections and shall be free from mechanical and electrical defects. Circuits shall be tested for proper neutral and ground connections.

10. SUBSTITUTIONS:

A. Alternative manufacturer's will be considered for electrical devices, switches, outlets, etc. not provided by owner.

B. Catalogs, data sheets or shop drawings shall be submitted to the construction manager for all alternative manufactured equipment as required under "Submittals".

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STATE OF TEXAS
JAMES F. TURNER, III
43679
LICENSED PROFESSIONAL ENGINEER
01/25/13

REVISIONS

DATE: 01.28.13

PROJECT NO: 1220

ISSUED FOR: PERMIT, PRICING, & CONSTRUCTION

All drawings & written materials appearing herein constitute original unpublished work, & may not be duplicated, used or disclosed without written consent of ALEXANDER + KIENAST + SCHNITZ, LLC.

GREEN BANK
BANK SUSTAINABLY
Dallas North Tollway Branch
16771 Dallas Parkway
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ELECTRICAL SPECIFICATIONS

E5.1

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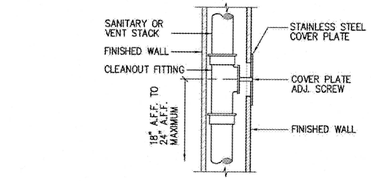
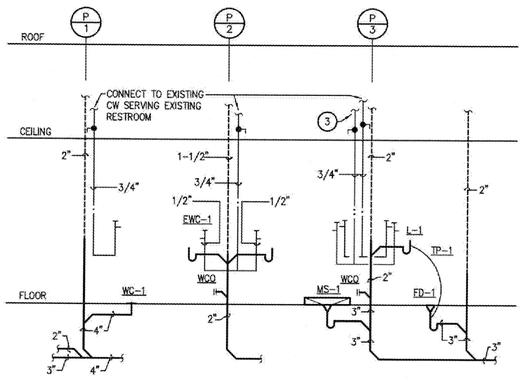
Job Number: 2236

DRAWN W.M.G. | DESIGN W.M.G. | QC T.N.M. | APPD J.F.T.



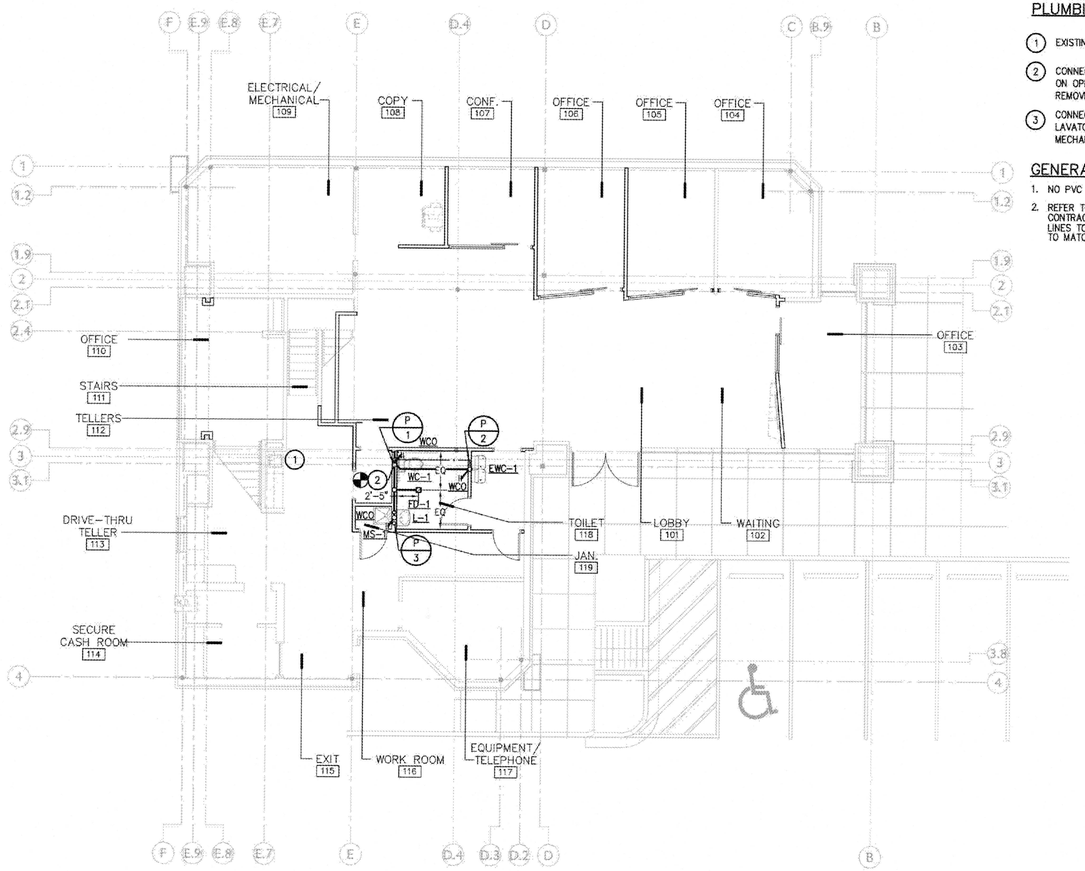
03 WALL CLEANOUT

SCALE: N.T.S.



02 PLUMBING RISERS

SCALE: N.T.S.



1 PLUMBING PLAN

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

PLUMBING NOTES BY SYMBOL " ○ "

1. EXISTING SINK TO REMAIN.
2. CONNECT TO UTILITIES SERVING EXISTING WATER CLOSET ON OPPOSITE SIDE OF WALL (WATER CLOSET TO BE REMOVED).
3. CONNECT TO NEAREST 3/4" HW (AT EXISTING LAVATORY/SINK, GOING UP TO 2ND FLOOR KITCHEN, OR IN MECHANICAL ROOM)

GENERAL NOTES:

1. NO PVC ALLOWED IN PLENUM ABOVE CEILING.
2. REFER TO ARCHITECTURAL FOR SCOPE OF PLUMBING DEMO. CONTRACTOR TO TERMINATE EXISTING VENT/WASTE AND WATER LINES TO BELOW GRADE OR ABOVE CEILING. REPAIR FLOOR/CEILING TO MATCH EXISTING.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
———	SANITARY WASTE PIPING		SOLENOID VALVE
- - - - - -	SANITARY VENT PIPING		HOSE BIBB OR NON FREEZE WALL HYDRANT (HB) (NFWH)
— • —	COLD WATER PIPING		MIXING VALVE
— •• —	HOT WATER PIPING		CAP PIPING
— ••• —	HOT WATER RECIRCULATION PIPING		FLOOR DRAIN (FD)
— D —	CONDENSATE DRAIN LINE PIPING (D) (CD)		HUB DRAIN (HD)
— G —	NATURAL GAS PIPING		FLOOR SINK (FS)
	TRAP PRIMER		FLOOR CLEANOUT (FCO)
	REGULATOR		TWO WAY OR DOUBLE CLEAN OUT (TWCO) (DCO)
	GAS COCK		WALL CLEANOUT (WCO)
	GATE VALVE	VTR	VENT THROUGH ROOF
	BALL VALVE	AFF	ABOVE FINISHED FLOOR
	CHECK VALVE	AFG	ABOVE FINISHED GRADE
	UNION	OH	OVERHEAD ABOVE CEILING
	BALANCING VALVE		CONNECTION TO EXISTING
	FLOW DIRECTION OF PIPING		SEE CIVIL DRAWINGS FOR CONTINUATION

ALL SYMBOLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS JOB

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	CONNECTION SIZE W.	V.	CW.	HW.	DESCRIPTION
WC-1	WATER CLOSET	KOHLER	4"	2"	3/4"	--	FIXT. TYPE: FLOOR MOUNTED. MODEL NO.: KOHLER PERSUADE DUAL FLUSH ELONGATED TOILET. MODEL # K-3654, COLOR: BONE FLUSH TANK. CHURCH #9500C OPEN FRONT SEAT LESS COVER.
L-1	LAVATORY	KOHLER	2"	1 1/2"	1/2"	1/2"	FIXT. TYPE: WALL MOUNTED ADA LAVATORY MODEL NO.: KOHLER PINOIR MODEL# K-2035-1 WITH K-2057 SHROUD, COLOR: BONE FAUCET: KOHLER "SCULPTED TOUCHLESS FAUCET" 0.5GPM MODEL # K-13461 TRAP: McGUIRE #8088 DRAIN: McGUIRE #155-WC, OFFSET GRID STRAINER SUPPLIES: McGUIRE #167LK, LOOSE KEY STOP
WCO	WALL CLEANOUT	JOSAM	2"	1 1/2"	---	---	JOSAM 58600 ROUND STAINLESS STEEL WALL ACCESS COVER WITH CENTER SCREW, COATED CAST IRON CLEANOUT TEE WITH HUB AND SPIGOT CONNECTION AND RECESSED BRONZE TAPPED PLUG.
MS-1	MOP SINK	FIAT	3"	2'	1/2"	1/2"	FLOOR MOUNTED MOP SINK. MODEL NO. MSB2424 CHICAGO FAUCET 897 WITH INTEGRAL STOPS, VACUUM BREAKER, HOSE & HOSE BRACKET FIAT 832-AA.
EWC-1	ELECTRIC WATER COOLER	ELKAY	2"	2"	3/4"	---	FIXT. TYPE: WALL HUNG ELECTRIC WATER COOLER BARRIER FREE FROST RESISTANT TAS COMPLIANT MODEL NO.: ELKAY EZSTL-8-C DUAL HEIGHT ADA AND TAS COMPLIANT WALL HUNG ELECTRIC WATER COOLER WITH HERMETICALLY SEALED AIR COOLED CONDENSING UNIT, FLEXI-GUARD BUBBLERS, FRONT AND SIDE PUSH BARS AND VOLUME REGULATOR. DELIVER 8.0 GPH OF 50 DEG. F WATER BASED ON 80 DEG. F INLET WATER TEMPERATURE. STAINLESS STEEL RECEPTOR AND PANELS LKAPRE2L. APRON INSTALLED BELOW UPPER FOUNTAIN. SUPPORT: WADE 400 SERIES UNIVERSAL CARRIER. MOUNTING HEIGHT AS DIRECTED BY ARCHITECT.
FD-1	FLOOR DRAIN	ZURN	2"	2"	---	---	FIXT. TYPE: DUCO CAST BODY WITH FLASHING COLLAR & ADJUSTABLE NICKLE BRONZE STRAINER HEAD & DEEP SEAL P-TRAP MODEL NO. ZN-415-6B-P
TP-1	TRAP PRIMER	SMITH MFG. CO.	---	---	---	---	GREY WATER TRAP PRIMER, PRIME-EZE F16 2698

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PLUMBING PLAN

P1.1

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TX REGISTRATION # 10548

Job Number: 2728.9

DRAWN W.M.G. | DESIGN W.M.G. | QC T.N.M. | APPD J.F.T.

SECTION 15410 - PLUMBING SYSTEM PIPING

PART 1 - GENERAL

1.1 PRINCIPAL ITEMS OF WORK INCLUDED

A. Soil piping.
B. Drain, waste and vent piping. (DWV)
C. Not used.
D. Hot and cold domestic water system.
E. Fuel gas system.
F. Not used.
G. Not used.
H. Not used
I. Valves and accessories.
J. Not used.
K. Potable water system disinfection.
L. Plumbing fixtures.

1.2 RELATED WORK SPECIFIED ELSEWHERE

A. Trenching and backfill: Section EARTHWORK.
B. Fixtures and equipment: See Plumbing Fixture Schedule on drawings.
C. Painting: Section PAINTING.

1.3 REQUIREMENTS

A. Codes:

International Mechanical Code
International Plumbing Code
California Administrative Code, Title 24 (where req'd)
National Electrical Code (NEC)
Applicable Local Codes
Applicable Safety Codes
Americans with Disabilities Act (ADA)

B. Standards:

1. American National Standards Institute (ANSI):

A-53	Steel, Black and Hot Dipped, Zinc Coated Welded and Seamless Pipe.
B16.18	Cast Bronze Solder-Joint Pressure Fittings.
B16.22	Wrought Copper and Bronze Solder-Joint Pressure Fittings.
B16.23	Cast Copper Alloy Solder - Joint Drainage Fittings - DWV.
B16.26	Cast Copper Alloy Fittings for Flared Copper Tubes.
B16.29	Wrought Copper and Wrought Alloy Solder-Joint Draining Fittings - DWV.
B306.86	Copper Drainage Tube (DWV).

2. American Society for Testing and Materials (ASTM)

A-53	Steel, Black and Hot Dipped, Zinc Coated Welded and Seamless Pipe.
A74	Cast Iron Soil Pipe and Fittings
B32	Solder Metal
B88	Seamless Copper Water Tube
B306	Copper Drainage Tube (DWV)
D1785	Polyvinyl Chloride (PVC) Plastic Pipe, Schedules 40 and 80
D2146	Propylene Plastic Molding and Extruding Materials
D2466	Socket-Type PVC Plastic Pipe Fittings
D2564	Solvent Cements for PVC Plastic Pipe and Fittings
D2661	ABS Schedule 40 Plastic Drain, Waste and Vent Pipe.
D2665	PVC Plastic Drain, Waste and Vent Pipe and Fittings.
D2751	ABS Sewer Pipe and Fittings.

C. Submittals

Three (3) copies of catalog data sheets shall be submitted to Owner's Construction Manager for review. Submittals shall be made and favorable review secured before materials and equipment are installed.

Submit catalog data sheets for:
1. Valves and accessories.
2. Hangers and supports.
3. Clean outs
4. Dielectric connections.
5. Not used.
6. Floor sinks and floor drains.
7. Not used.
8. Plumbing fixtures.
9. Not used.

PART 2 - PRODUCTS

2.1 MATERIALS

For material applications see "material specifications" later in these notes.

A. Cast iron DWV piping system: ASTM A74
B. Copper DWV piping system: Type DWV copper per ASTM B306
C. Copper pressure piping system:
1. Piping: Type "L" copper per ASTM B88.
2. Fittings: Solder-joint cast bronze per ANSI B16.18 or wrought copper per ANSI B16.22.
3. Flanges: Class 150 pound bronze: NIBCO, CHASE, or approved alternative.
4. Unions: Solder-end bronze: NIBCO, CHASE, or approved alternative.

2.1 MATERIALS (cont.)

5. Water valves:
A. Ball, 2-inch and smaller: 125 psi WSP brass, sweat joints: WATTS #WBVS or approved alternative.
B. Check valves: 150 psi WSP, Bronze body, sweat or threaded joints: WATTS #CV or CVS or approved alternative.
6. Air valves: Bronze, screwed end, 150 SWP, CRANE #431-UB, STOCKHAM #120, or approved alternative.
7. Quick connect coupling: 1/2-inch size brass construction, PARKER HANNFIN, AMFLO, or approved alternative.

D. PVC piping systems:
1. Piping: Schedule 40 PVC per ASTM D1785 or Schedule 80 PVC per ASTM 1785.
2. Fittings and flanges: PVC Schedule 80 socket weld per ASTM D2467.
3. Water valves: Same as for copper piping.

E. Joints in piping:
1. Copper: Solder-joint.
2. Plastic: Socket weld and fusion weld.
3. Cast iron: Compression, or no-hub joint.

2.2 FIXTURES

See Plumbing Fixture Schedule on plans.

2.3 EQUIPMENT

A. Hangers and supports:
1. Split-ring type, galvanized: GRINNELL, SUPERSTRUT, or approved alternative.
2. Trapeze type, galvanized: UNISTRUT, KINDORF, or approved alternative.
3. Bolted steel clamps, galvanized: GRINNELL, SUPERSTRUT, or approved alternative.
4. Vertical strut type: UNISTRUT, KINDORF, or approved alternative.

B. Piping isolators: Metal-clad felt type specifically made for isolating pipe from hanger: SEMCO Trisolators, SUPERSTRUT Type C715 isolator, or approved alternative.
C. Water hammer arrestors: J.R. Smith Hydrotrol, Zurn Shocktral, or approved alternative.
D. Not used.
E. Dielectric connections, insulating unions: CAPITOL, CLAYTON-MARK (Petro), or approved alternative. For cold water only, Schedule 80 PENTON , or CPVC nipples, 4-inch long, may be used.

2.4 MISCELLANEOUS MATERIALS

A. Flashing for piping protruding through exterior walls or roof: 16-ounce per square foot copper, or 4-pound per square foot lead.
B. Solder: 95/5 (tin antimony) per ASTM B32.
C. Caulking lead: 99.7 percent pure lead.
D. Pipe sleeves: Steel, cast iron, or plastic.
E. Escutcheons: Cast iron, malleable iron, painted or chrome plated.
F. Insulation: MANVILLE "Aerotube", or approved alternative.

2.5 SUBSTITUTIONS

A. Substitutions may be considered in lieu of specified fixtures as follows:

Floor installed fixtures and clean outs - J.R. Smith, Josam

Water Closets, Lavatories, Urinals - Kohler, American Std., Crane

Not used.

Not used.

These and other equivalent alternatives shall be presented to the Owner's Construction Manager for consideration per the'Submittals' Section.

PART 3 - EXECUTION

3.1 INSTALLATION - GENERAL

A. Piping shall include all piping fittings and valves: connect to existing piping utilities as indicated on drawings.
B. Conceal all interior piping in walls or above ceilings, except where shown to be exposed.
C. Provide for expansion and contraction of all pipes.
D. Provide reducing fittings for all changes in pipe sizes - do not use bushings.
E. Provide dielectric isolation between dissimilar metals and where required at equipment connections.
F. Provide fittings for all changes in pipe direction.
G. Contamination precautions: Do not cross-connect or interconnect between potable water piping and drain, soil, or waste piping.

3.2 INSTALLATION - SYSTEMS

A. Water piping:
1. Copper Type "L".
2. Provide shutoff valves as indicated or required.
3. Provide drain valves where required for complete system drainage.
4. Provide water hammer arresters sized and located per Table V, WH-201, or as shown.
5. Provide back flow preventer where shown.

B. Sanitary piping:
1. Grading: Slope horizontal soil and waste piping 1/4-inch per foot where possible, but in no case less than 1/8-inch per foot.

3.3 INSTALLATION - TESTING

All hot and cold water supply, drainage and vent piping shall be tested as indicated below or as required by the local jurisdiction, whichever is more stringent. No piping system shall be covered up or buried until successfully tested and approved by the owner and the local plumbing inspector.

A. Water piping:
Upon completion of a section, or of the entire hot and cold water supply system, it shall be tested and proved water-tight under a water pressure not less than the working pressure under which it is to be used, or eighty (80) psig, whichever is higher (verify with the local water company). The water used for testing shall be obtained from a potable source of supply. The piping under test shall withstand the test without leaking for a period of not less than fifteen (15) minutes.

Any section of piping failing the test shall be repaired and retested, as indicated above until successful, holding the applied pressure for at least the specified time period.

B. Drainage piping:
Upon completion of a section, or of the entire drainage and venting systems, they shall be tested and proved watertight under a water pressure not less than a ten (10) foot head. If the system is tested in sections, each opening shall be tightly plugged except at the highest opening of the section under test, and each section shall be filled with water to a ten (10) foot head. In testing successive sections at least the upper ten (10) feet of the next proceeding section shall be tested, so that no joint or pipe in the building shall have been tested to less than ten (10) foot head of water. The water shall be kept in the system, or in the section under test, for at least thirty (30) minutes and maintain the applied pressure without leaking.

Any section of the drainage or vent piping failing the test shall be repaired and retested as indicated above until successfully holding the applied pressure for at least the specified time period.

3.4 GUARANTEE

A. All work shall be guaranteed for a minimum period of one year from the date of acceptance by the Owner. The guarantee period for certain items shall be longer, as indicated in the specifications for those items.

B. Should any malfunction develop during the guarantee time period due to defective material, faulty workmanship, or noncompliance with plans, specifications, codes or directions of the Owner, Architect, Engineer or Inspector, the contractor shall furnish all necessary labor and materials to correct the malfunction without additional charges.

3.5 CLEANING

A. The Plumbing Contractor shall remove all waste generated by the plumbing works on a daily basis, and keep the job site clear and safe from any debris and/or items that fall under his responsibility. Upon completion of the project, the plumbing works shall be cleaned including plumbing fixtures, waste lines, water heaters and any other plumbing devices. This shall be performed to the satisfaction of the owner or the owner's representative and shall occur before final acceptance of the project. All debris and waste shall be removed from the site and disposed of in a safe manner as required by local and state authorities.

MATERIALS SPECIFICATION

A. Sanitary Soil, Waste and Vent Systems: soil, waste & vent piping shall be schedule 40 pvc or cast iron. Before commencement of work, contractor shall verify that pipe to be installed complies with local codes & will be acceptable to local bldg. inspectors. Contractor shall bear all costs for removal and replacement of any unacceptable pipe. Where pvc is unacceptable, soil & waste piping below slab & incl. yard piping shall be std. wt. cast iron soil pipe & fittings (no hub). The couplings shall be stainless steel shields & clamps w/ neoprene gaskets. Vent piping above floor shall be sch. 40 galv. steel w/ c.i. drainage pattern screw fittings.

B. Water piping above and below slab: Type "L", hard drawn copper tubing with 95-5 tin/antimony solder or approved "lead-less" joint fittings.

C. Not used.

D. Not used.

E. Indirect & Condensate Drains: Copper, type "M" with 95-5 tin/antimony solder joint fittings. No joints will be allowed under building slab.

F. Insulation: All cold water lines within the building (in areas with high outdoor humidity and / or temperature or low outdoor temperature only) shall be insulated with "ppg" industries, certain teed saint gobain snap-on or john mansinsulation. All hot water lines within the building shall be insulated with "ppg" industries, certain teed saint gobain snap-on or john mansinsulation micro-loc, except in the ceiling space which shall be john mansville aerotube foam plastic pipe insulation. Hot and cold water insulation shall be 1" thick or per local codes. Exposed hot and cold water pipes, and traps below restroom lavatories shall be insulated with 'truebro' insulation kit, see sheet p1.0. All hvac condensate drains including waste lines from evaporative coolers shall be insulated with 1/2" thick john mansville aerotube foam plastic pipe insulation.ville micro-loc

G. Water Hammer Arresters: All stainless steel construction, bellows-type, pdi approved & certified sizing & placement conforming to plumbing & drainage institute standard pdi-wh 201 latest edition & as manufactured by j.r. smith, zurn or pff, inc.

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