

Addendum 1

<u>Issue Date: 4-6-17</u>

Architect: BBN Architects Inc.

MEP: Orazem & Scalora Engineering, P.A.

Construction Manager: Coonrod & Associates Construction Co., Inc.

Owner: USD 320 Wamego

The attached documents and / or items below shall hereby become part of the Construction Documents for the referenced project above.

<u>ADD1-1:</u> The following sheets were issued as 8.5" x 11" in pdf format, which is incorrect. These sheets have been re-issued as 24" x 36". The <u>ONLY changes</u> are to the size of the sheet. Please see attached sheets for correct size.

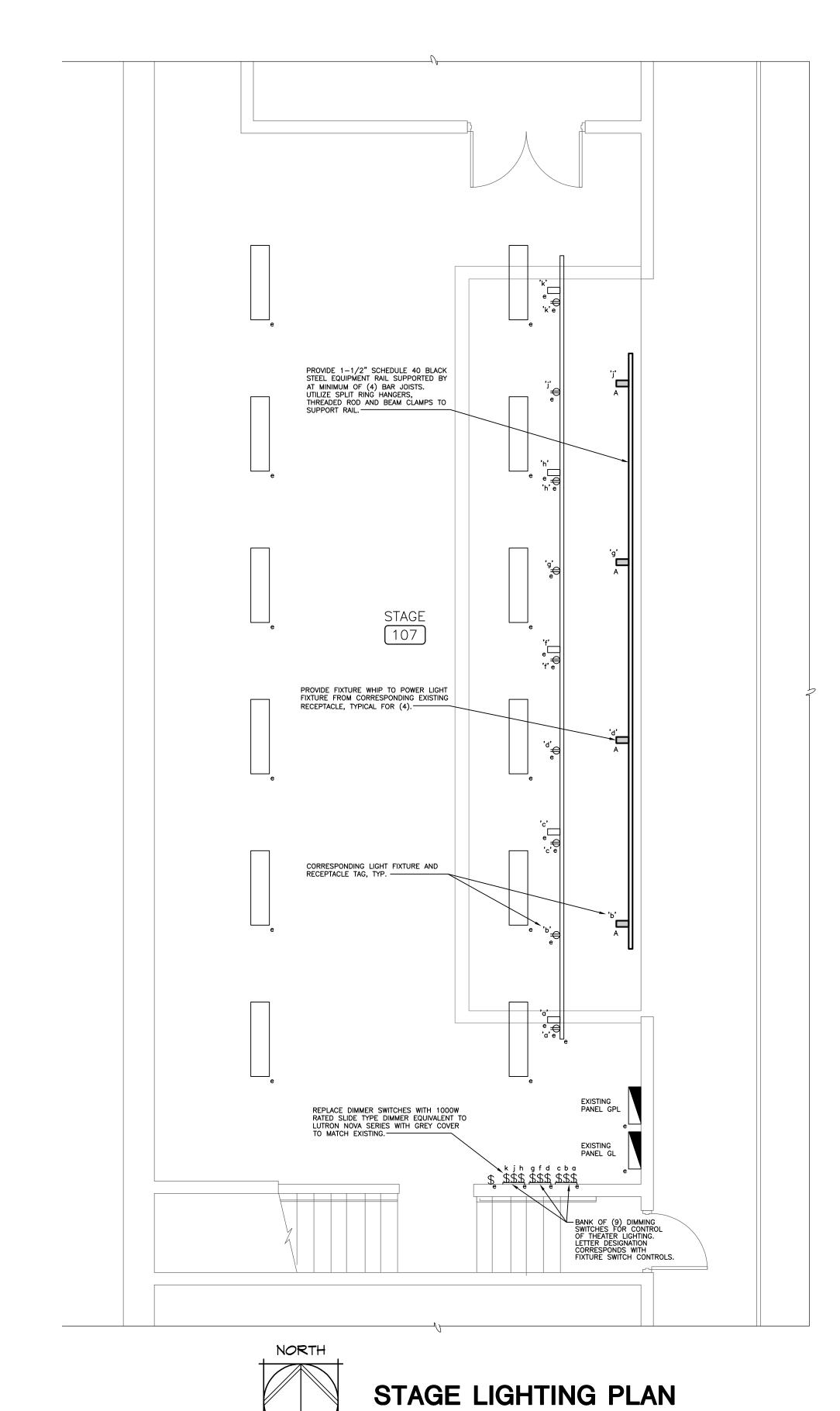
8th & Poplar: SMH Consultant Sheets 1-7, E101

West Elementary: E101, P101

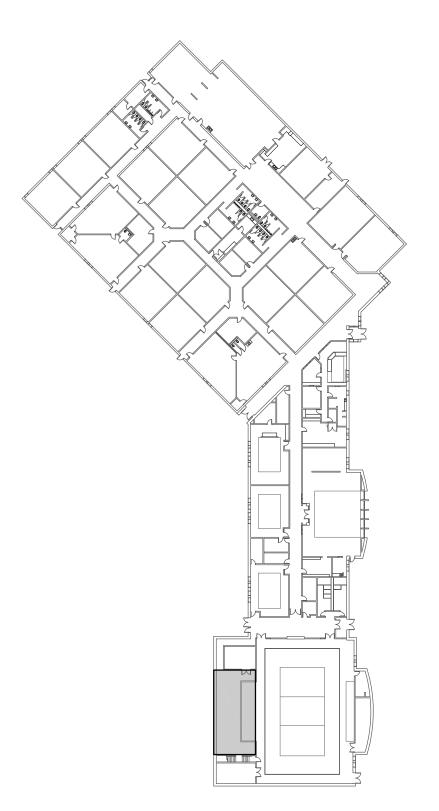
Wamego Middle School: M101, M102, M103, M105, M106, E101, E102, E201,

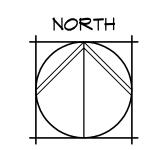
P101, P102, P201, P202.

<u>ADD1-2:</u> Replace the current specification section with the attached specification section "099123-Interior Painting", in it's entirety.



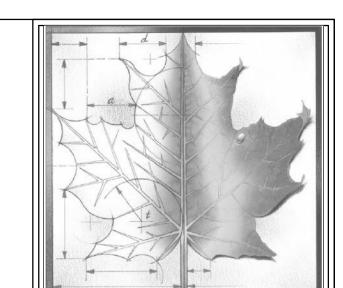
|/4" = |'-0"





KEY PLAN NO SCALE

LIGHTING FIXTURE SCHEDULE						
MARK	SIZE	MANUF.	DESCRIPTION	LAMPS		
A	10.8" L x 8.3" W x 8.3" H		Series Source Four PAR EA theatrical spot with rugged die—cast aluminum construction, high—impact and thermally insulated knobs, sealed reflector housing with tool free access to reflector and lens, integral heat sink fins, gel frame holders with two accessory slots, top—mounted gel—frame retainer, steel yoke with two mounting positions, and positive locking yoke clutch. Provide fixture with HPL 375/115X wide lens lamping at 3,050K and 1,000 hours average rated life.	375W PAR – EA HPL		



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Addendum 1 - 4-6-17

REVISIONS:

A 4-6-17

Project Number:

04/04/2017 ct Name:

USD 320 WAMEGO WEST ELEMENTARY

Project Address:

1911 Sixth Street Wamego, KS 66547

Sneet 11

Stage Lighting Improvements

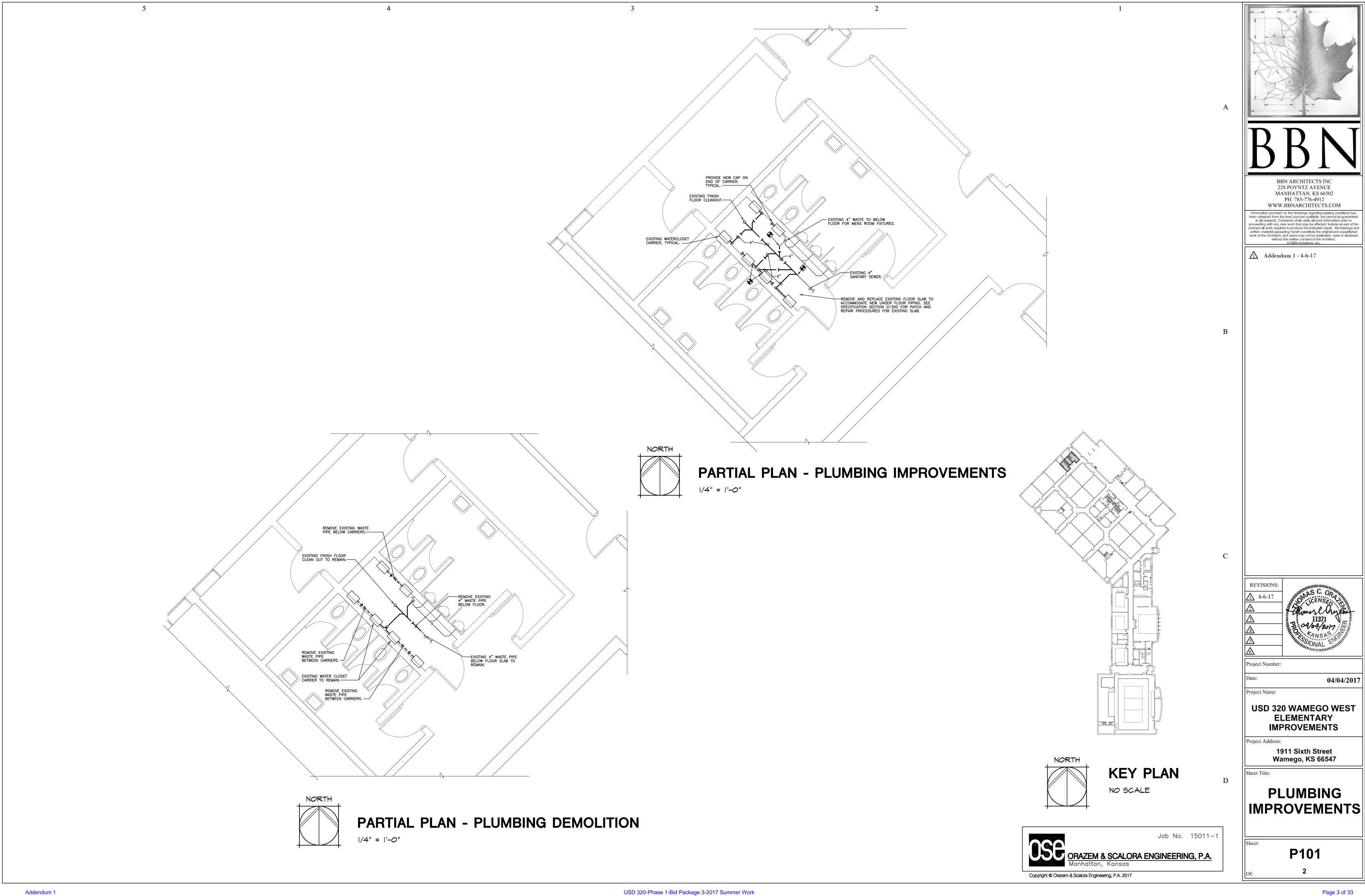
Sheet: E101

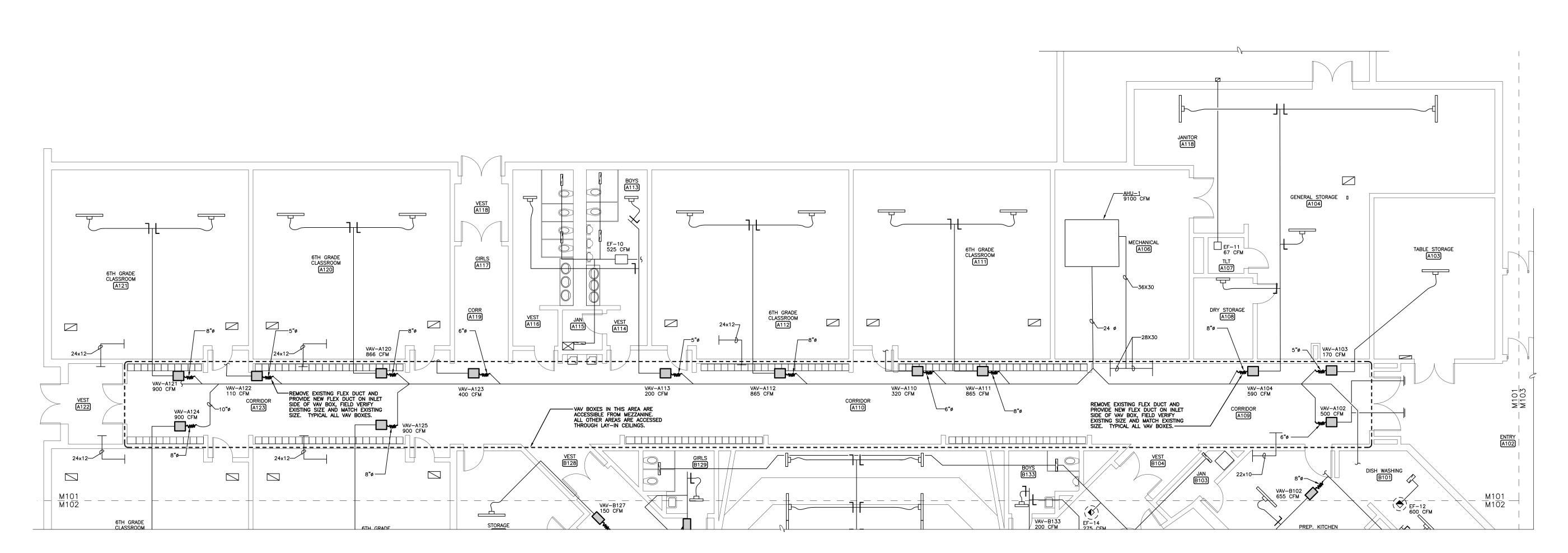
Job No. 15011-1

ORAZEM & SCALORA ENGINEERING, P.A.

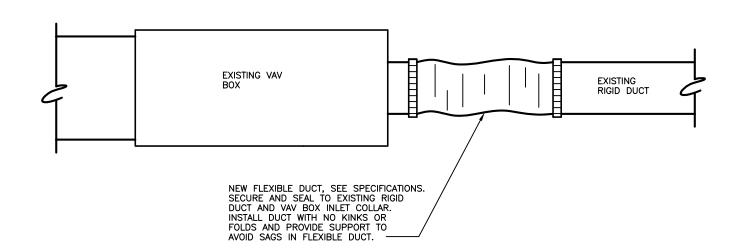
Manhattan, Kansas

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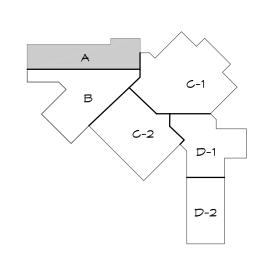






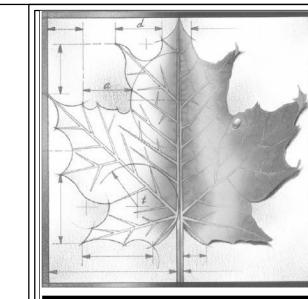


FLEXIBLE DUCT REPLACEMENT DETAIL
NO SCALE









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A 5-6-17

A 6-6-17

A 7-6-17

A 7-

Date:

ect Name:

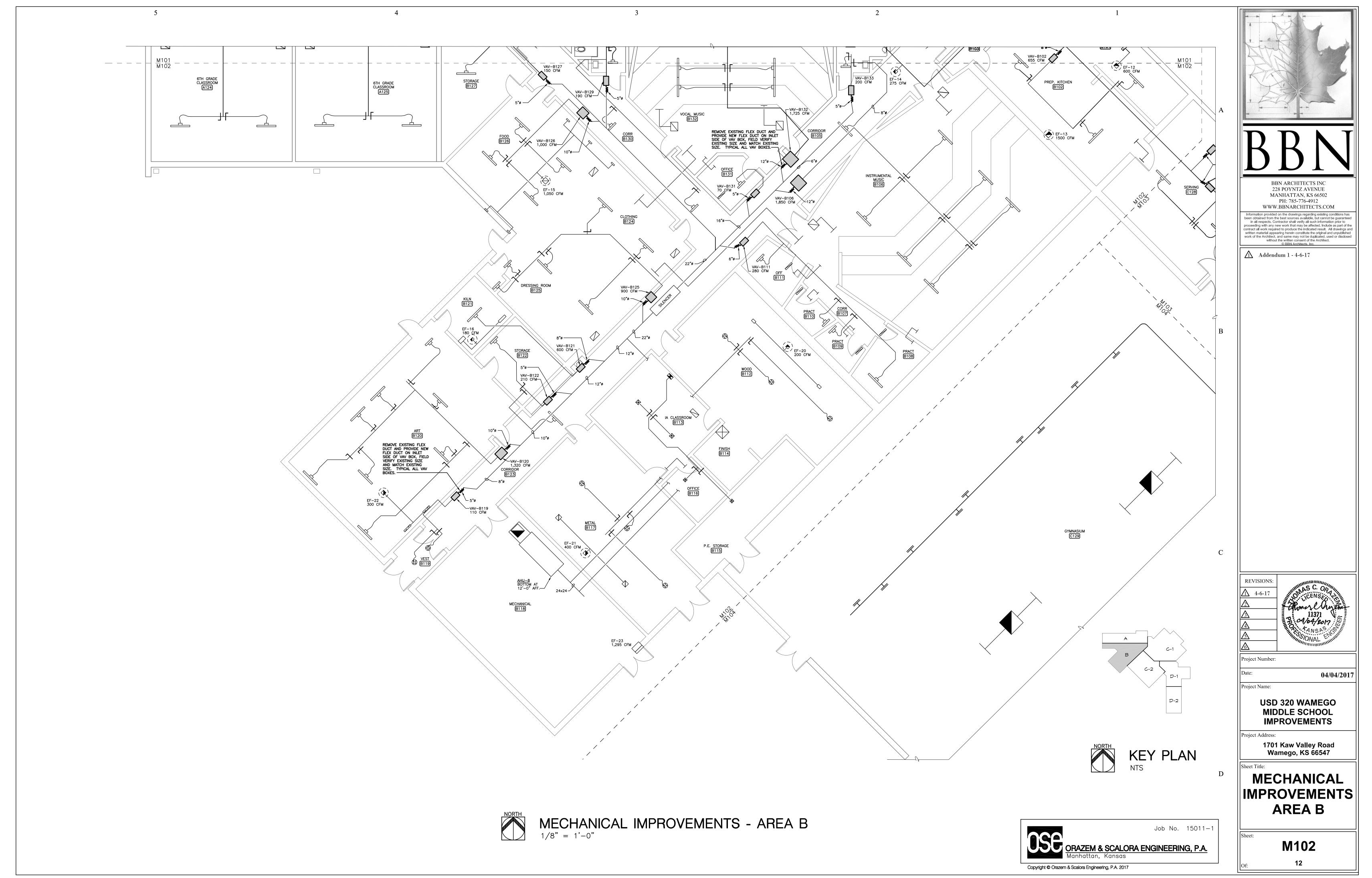
USD 320 WAMEGO

USD 320 WAMEGO
MIDDLE SCHOOL
IMPROVEMENTS

1701 Kaw Valley Road Wamego, KS 66547

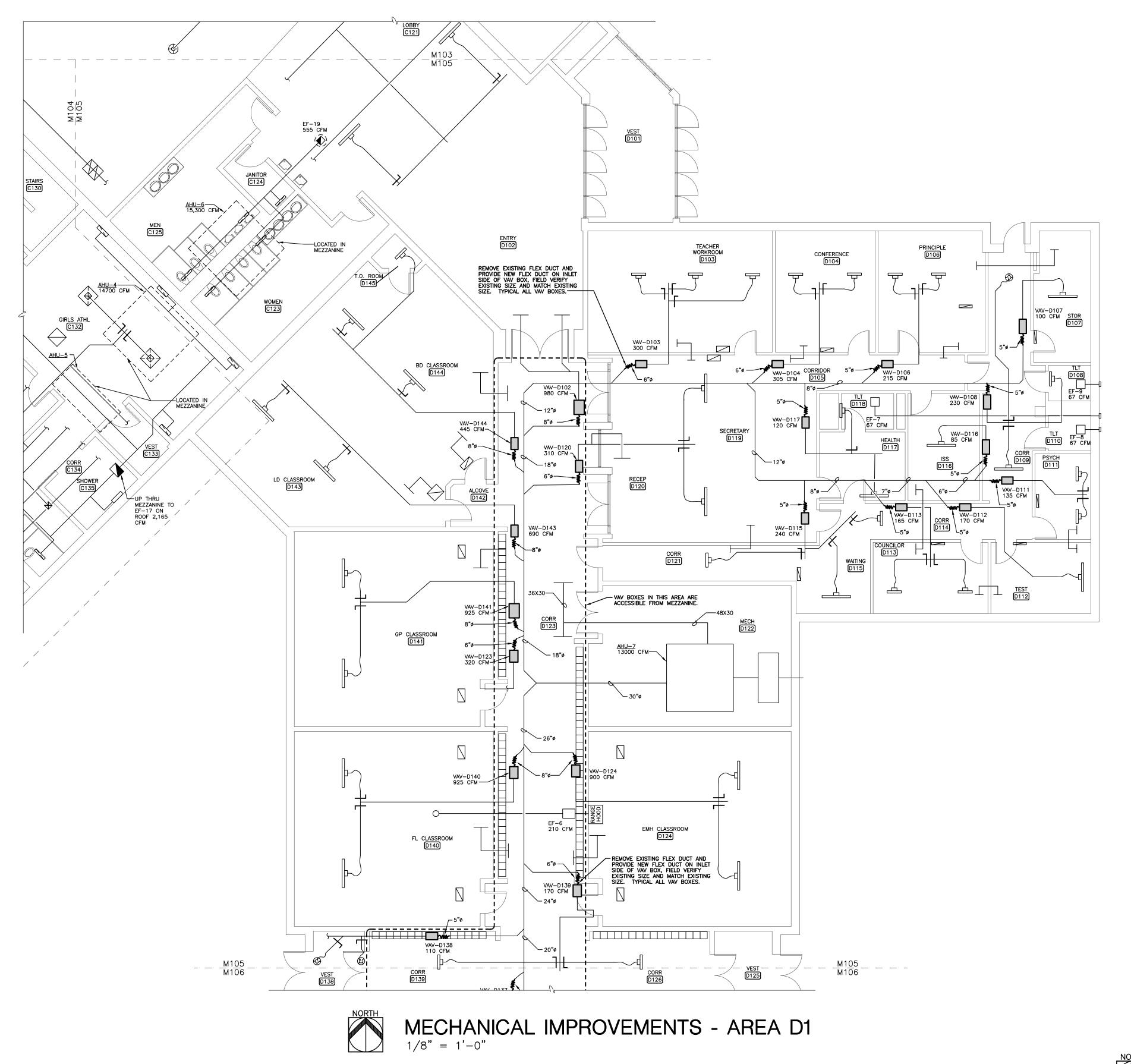
MECHANICAL IMPROVEMENTS AREA A

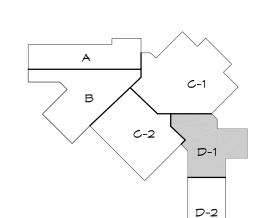
M101





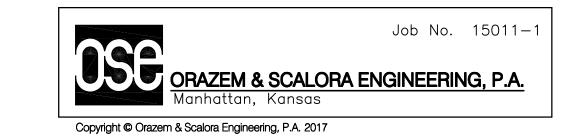
Page 6 of 33

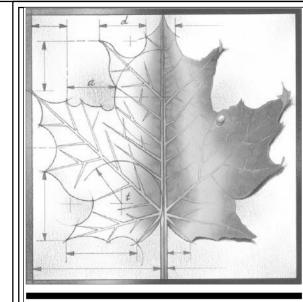












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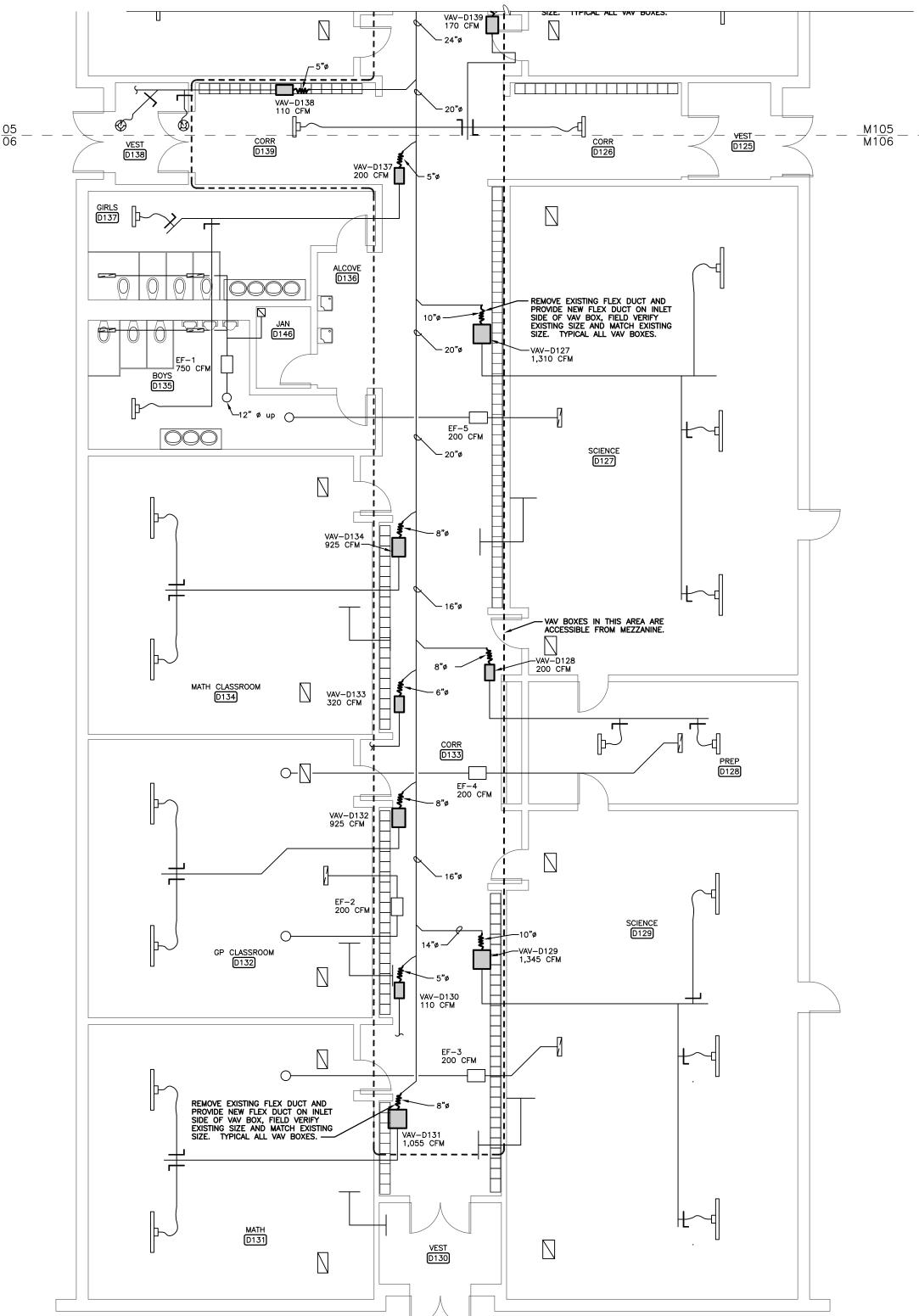
04/04/2017

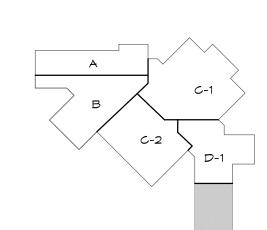
USD 320 WAMEGO MIDDLE SCHOOL IMPROVEMENTS

1701 Kaw Valley Road Wamego, KS 66547

MECHANICAL IMPROVEMENTS AREA D1

M105

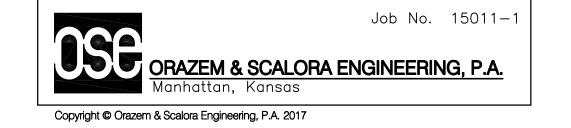


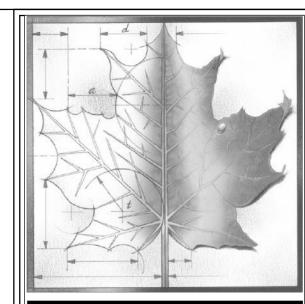




MECHANICAL IMPROVEMENTS - AREA D2







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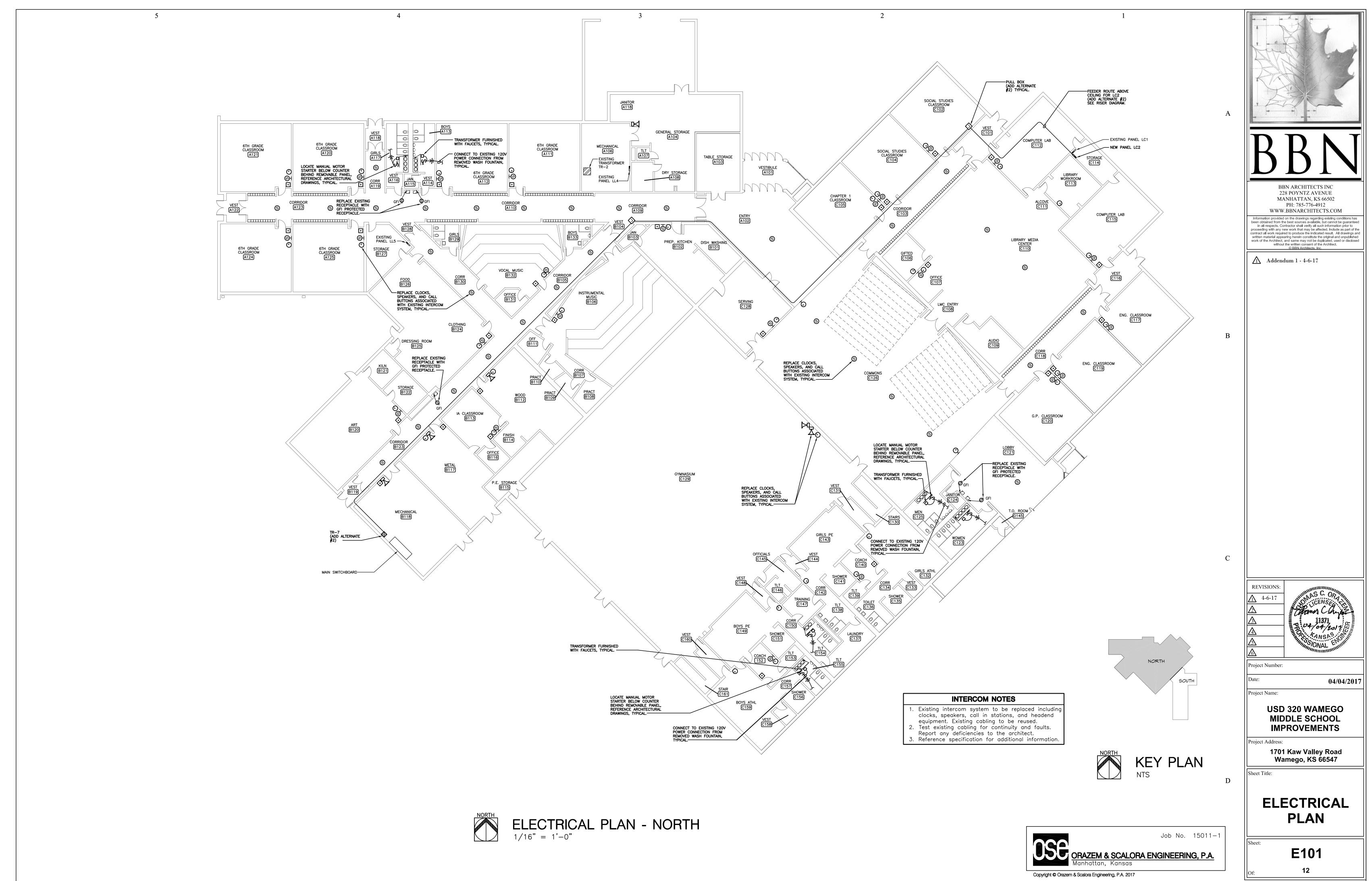
Name:

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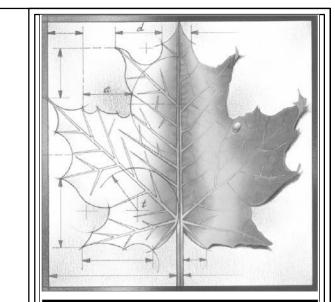
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MECHANICAL
IMPROVEMENTS
AREA D2

M106



Page 9 of 33



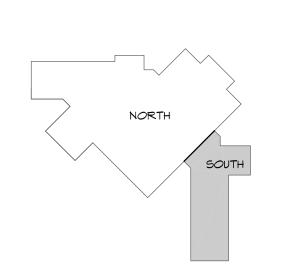
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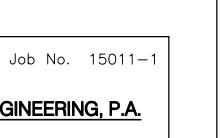


INTERCOM NOTES

Existing intercom system to be replaced including clocks, speakers, call in stations, and headend equipment. Existing cabling to be reused.
 Test existing cabling for continuity and faults. Report any deficiencies to the architect.
 Reference specification for additional information.







ELECTRICAL PLAN

REVISIONS:

Project Number:

Project Name:

Project Address:

E102

USD 320 WAMEGO MIDDLE SCHOOL

IMPROVEMENTS

1701 Kaw Valley Road Wamego, KS 66547



VEST D101

> CORR D121

MECH D122

EMH CLASSROOM D124

> SCIENCE D127

PREP D128

CORR D133

VEST D130

ALCOVE D142

9

GP CLASSROOM
D141

FL CLASSROOM D140

REPLACE CLOCKS,
SPEAKERS, AND CALL
BUTTONS ASSOCIATED
WITH EXISTING INTERCOM
SYSTEM, TYPICAL.

GP CLASSROOM D132

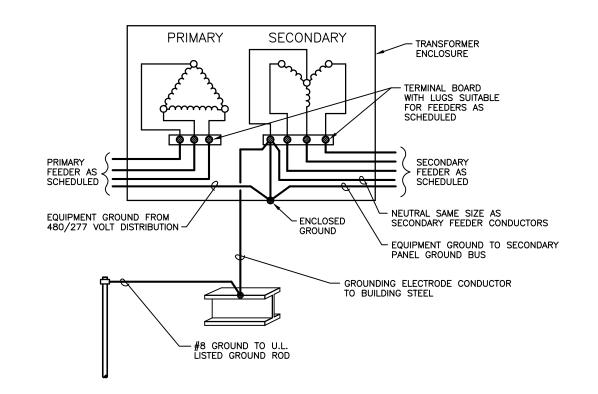
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CONNECT TO EXISTING 120V POWER CONNECTION FROM REMOVED WASH FOUNTAIN, TYPICAL.

LOCATE MANUAL MOTOR STARTER BELOW COUNTER BEHIND REMOVABLE PANEL, REFERENCE ARCHITECTURAL DRAWINGS, TYPICAL. REPLACE EXISTING
INTERCOM HEAD END
UNIT. EXISTING CABLING
TO BE REUSED. SEE
INTERCOM NOTES.

COUNCILOR O

04/04/2017



NOT TO SCALE

Mounting

SUSPENDED

Mark KVA

TR-7 45

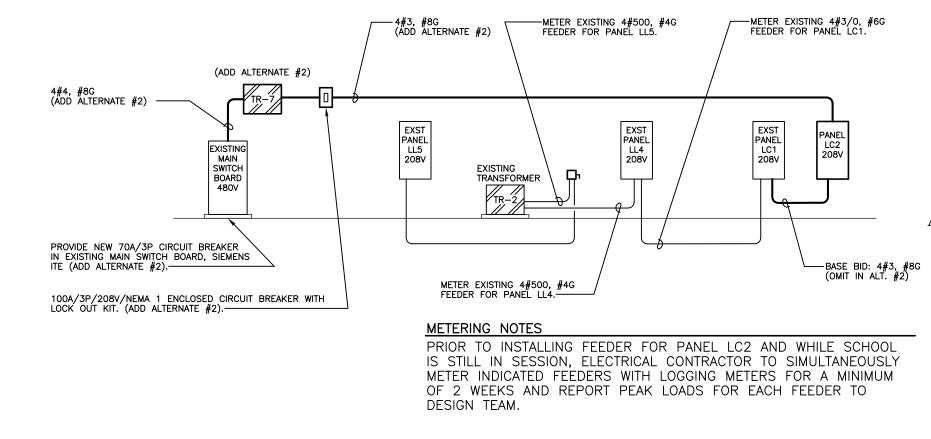
TRANSFORMER DETAIL (ALT. #2)

ELECTRICAL EQUIPMENT SCHEDULE (ALT. #2) TRANSFORMERS

4#3,#8G

Secondary Conductors GEC

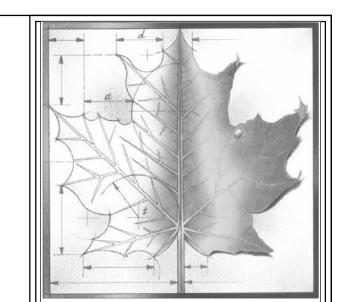
Dry type transformer for indoor installation, U.L. listed, compliant with IEEE, NEMA and ANSI standards, three phase, 60 hertz, 480 volt delta primary 208/120 volt wye secondary, (6) 2-1/2% full capacity taps, 150 degree C temperature rise, ventilated enclosure and internal vibration isolation core mounting. Provide NEC compliant signage for transformers served by remote disconnects.



PARTIAL RISER DIAGRAM NOT TO SCALE

	EXI	STING P	ANELB	OAF	RD SCHEDULE		
F	PANEL DESIGNATION: Existing Pane	el 'LC1'	MIN A.I.C.:	10,000	FEATURES:		
	LOCATION: Library		MCB Amps:			ırd Construction	
	VOLTS: 120/208		BUS Amps:		— Equipmer	nt Ground Bus	
	CONFIGURATION: 3 Phase/4 \		ENCL.:			Siemens BG42	
	MOUNTING: Surface				, and the second se		
CKT.	Description	Conductors	C/B	CKT.	Description	Conductors	C/B
1	·		(e)30	2	Floor Rcpt C115	(e)2#12,#12G	(e)20/1
3	Surge Suppressor		1 ' ' / 1	4	Rcpt C115	(e)2#12,#12G	(e)20/1
$\frac{3}{5}$			3	6	Floor Rcpt C115	(e)2#12,#12G	(e)20/1 (e)20/1
7	Floor Rcpt C112	(e)2#12,#12G	(e)20/1	8	Rcpt C115	(e)2#12,#12G	(e)20/1
9	Rcpt C112	(e)2#12,#12G		10	Rcpt C115	(e)2#12,#12G	(e)20/1
11	Floor Rcpt C112	(e)2#12,#12G	(e)20/1	12	Rcpt C115	(e)2#12,#12G	(e)20/1
13	Rcpt C112	(e)2#12,#12G	(e)20/1	14	Rcpt C115	(e)2#12,#12G	(e)20/1
15	Rcpt C112	(e)2#12,#12G	(e)20/1		Rcpt C115	(e)2#12,#12G	(e)20/1
17	Rcpt C112	(e)2#12,#12G	(e)20/1	18	Rcpt C115	(e)2#12,#12G	(e)20/1
19	Floor Rcpt C112	(e)2#12,#12G	(e)20/1	20	Floor Rcpt C115	(e)2#12,#12G	(e)20/1
	Floor Rcpt C112	(e)2#12,#12G		22 24	Floor Rcpt C115	(e)2#12,#12G	(e)20/1
	Floor Rcpt C112	(e)2#12,#12G	(e)20/1	24	Floor Rcpt C115	(e)2#12,#12G	(e)20/1
25	Rcpt C114	(e)2#12,#12G	(e)20/1	26	Rcpt C111	(e)2#12,#12G	(e)20/1
27	Floor Rcpt C110	(e)2#12,#12G		28	Rcpt C111	(e)2#12,#12G	(e)20/1
29	Floor Rcpt C110	(e)2#12,#12G	(e)20/1	30	Rcpt C113	(e)2#12,#12G	(e)20/1
31	Rcpt C110	(e)2#12,#12G	(e)20/1	32	Rcpt C114	(e)2#12,#12G	(e)20/1
33	Floor Rcpt C107	(e)2#12,#12G	(e)20/1	34 36	Rcpt C110	(e)2#12,#12G	(e)20/1
<u>35</u> 37	Floor Rcpt C110	(e)2#12,#12G		36	Rcpt C109	(e)2#12,#12G	(e)20/1
37			100*	38	Rcpt C112	(e)2#12,#12G	(e)20/1
39 41	Panel LC2	4#3,#8G	/,	40	Rcpt C112	(e)2#12,#12G	(e)20/1
41			3	42		(e)2#12,#12G	(e)20/1
	* Indicates new breaker in exist	ing panel. İnclu	uded in Base	e Bid	(omit in Alt. #2).		

F	PANEL DESIGNATION: Panel 'LC2'		MIN A.I.C.:	10,000	FEATURES:			
LOCATION: Library N			MCB Amps:	MLO	— Panelbo	Panelboard ConstructionEquipment Ground Bus		
			BUS Amps:		– Equipme			
	CONFIGURATION: 3 Phase/4 W		NEMA 1		— Equal to Square D NQ			
	MOUNTING: Surface				·	·		
CKT.	Description	Conductors	C/B	CKT.	Description	Conductors	C/B	
1	WP Rcpt *	(e)2#12,#12G	20/1	2 Spar	re		20/1	
3	Library Rcpt *	(e)2#12,#12G	20/1	4 Spar	re		20/1	
5	Bleacher Rcpt & Control, OH Proj *	(e)2#12,#12G	20/1	6 Spar	re		20/1	
7	Spare		20/1	8 Spar	re		20/1	
9	Spare		20/1	10 Spar	re		20/1	
11	Spare		20/1	12 Spar			20/1	
13	Spare		20/1	14 Spar	re		20/1	
15	Spare		20/1	16 Spar	re		20/1	
17	Spare		20/1	18 Spar	re		20/1	
19	Spare		20/1	20 Spar	re		20/1	
21	Spare		20/1	22 Spar			20/1	
23	Spare		20/1	24 Spar	re		20/1	
25	Spare		20/1	26 Spar	re		20/1	
27	Spare		20/1	28 Spar	re		20/1	
29	Spare		20/1	30 Spar	re		20/1	
31	Spare		20/1	32 Spar			20/1	
33	Spare		20/1	34 Spar			20/1	
35	Spare		20/1	36 Spar			20/1	
37	Spare		20/1	38 Spar			20/1	
39	Spare		20/1	40 Spar	re		20/1	
41	Spare		20/1	42 Spar	re		20/1	



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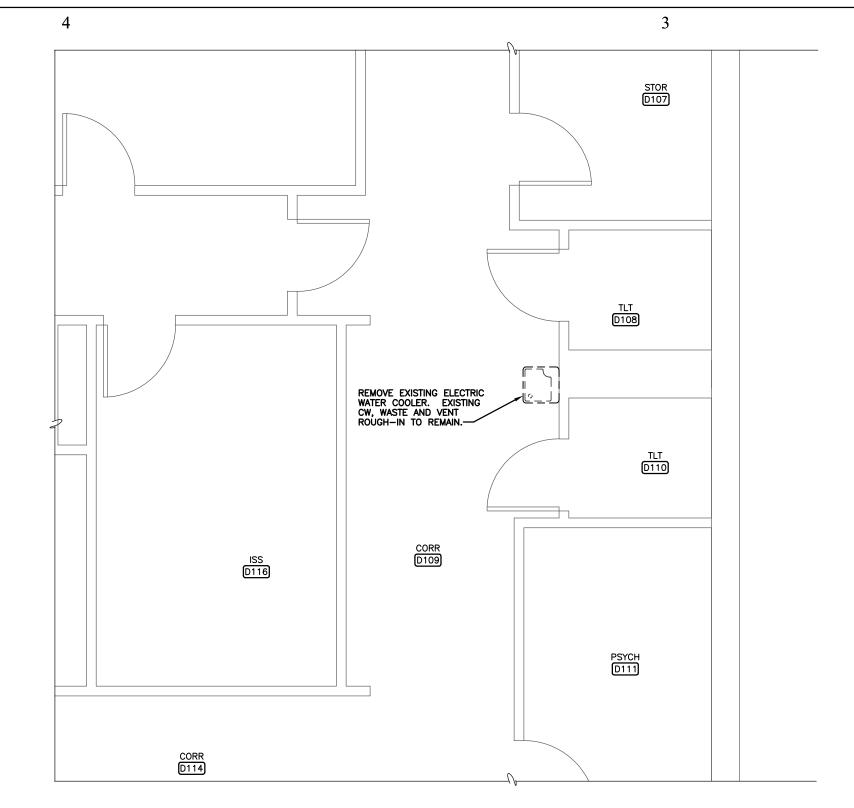
USD 320 WAMEGO MIDDLE SCHOOL **IMPROVEMENTS**

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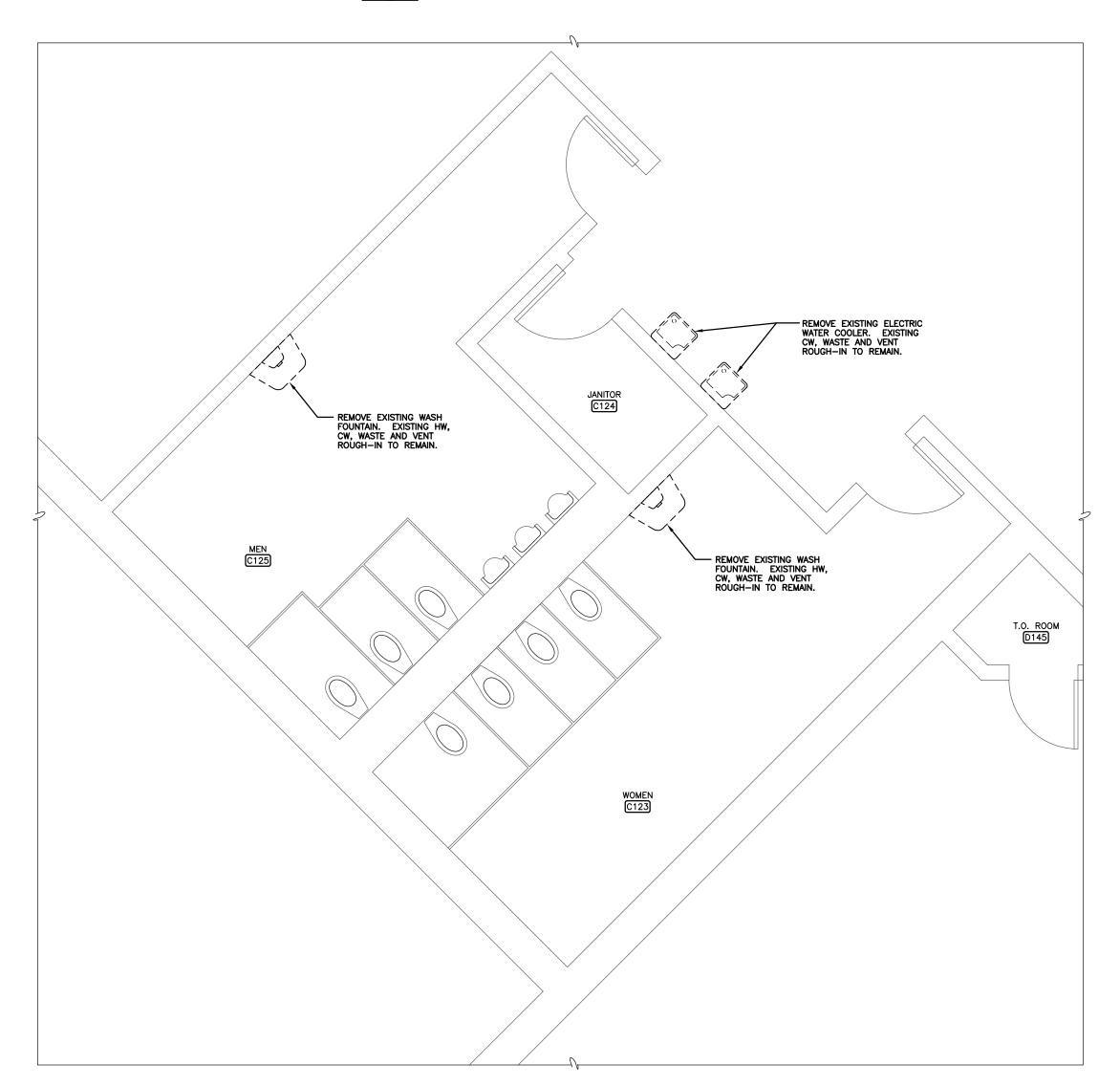
ELECTRICAL DETAILS

E201

Job No. 15011-1 ORAZEM & SCALORA ENGINEERING, P.A.

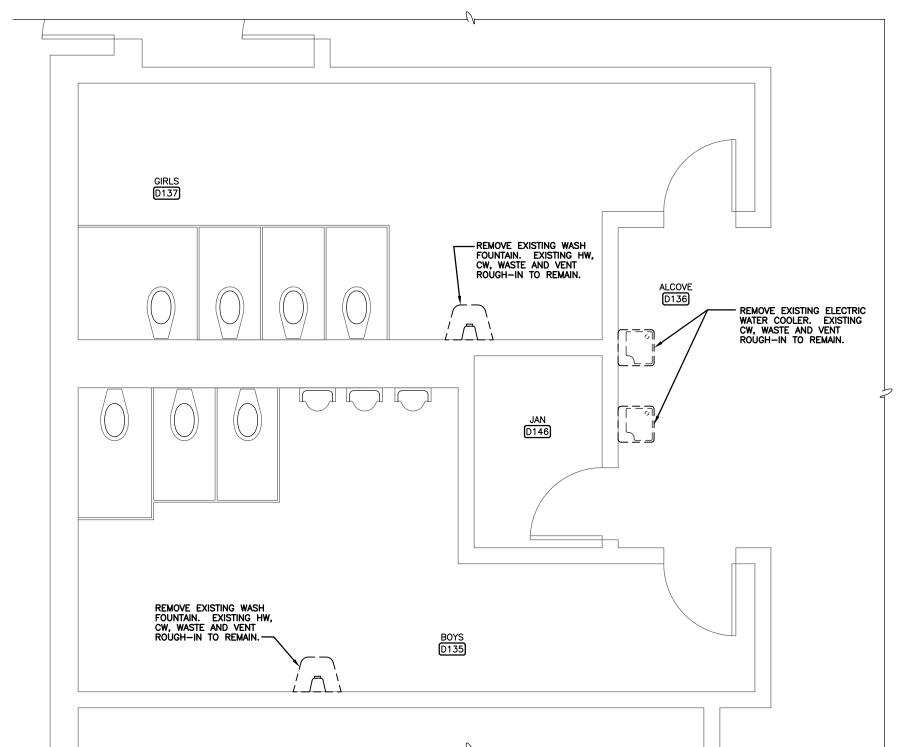


PARTIAL PLAN -PLUMBING DEMOLITION - AREA 4



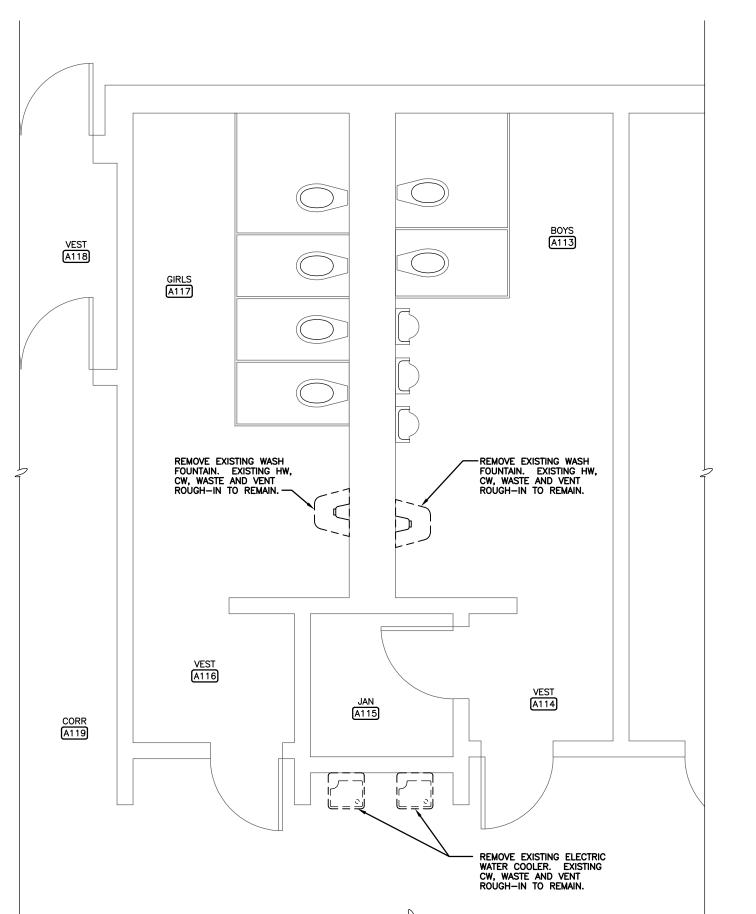


PARTIAL PLAN - PLUMBING DEMOLITION - AREA 2



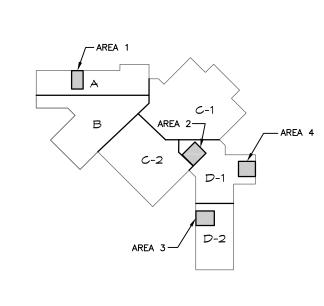


PARTIAL PLAN - PLUMBING DEMOLITION - AREA 3





PARTIAL PLAN - PLUMBING DEMOLITION - AREA 1



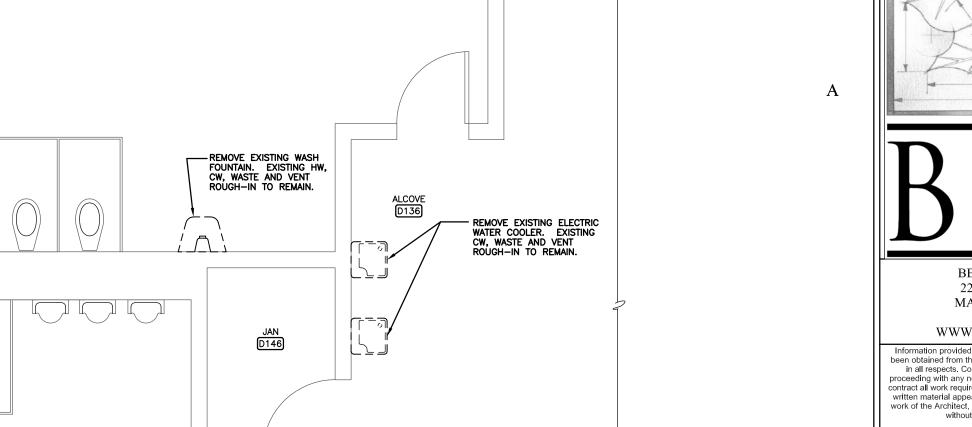






P101

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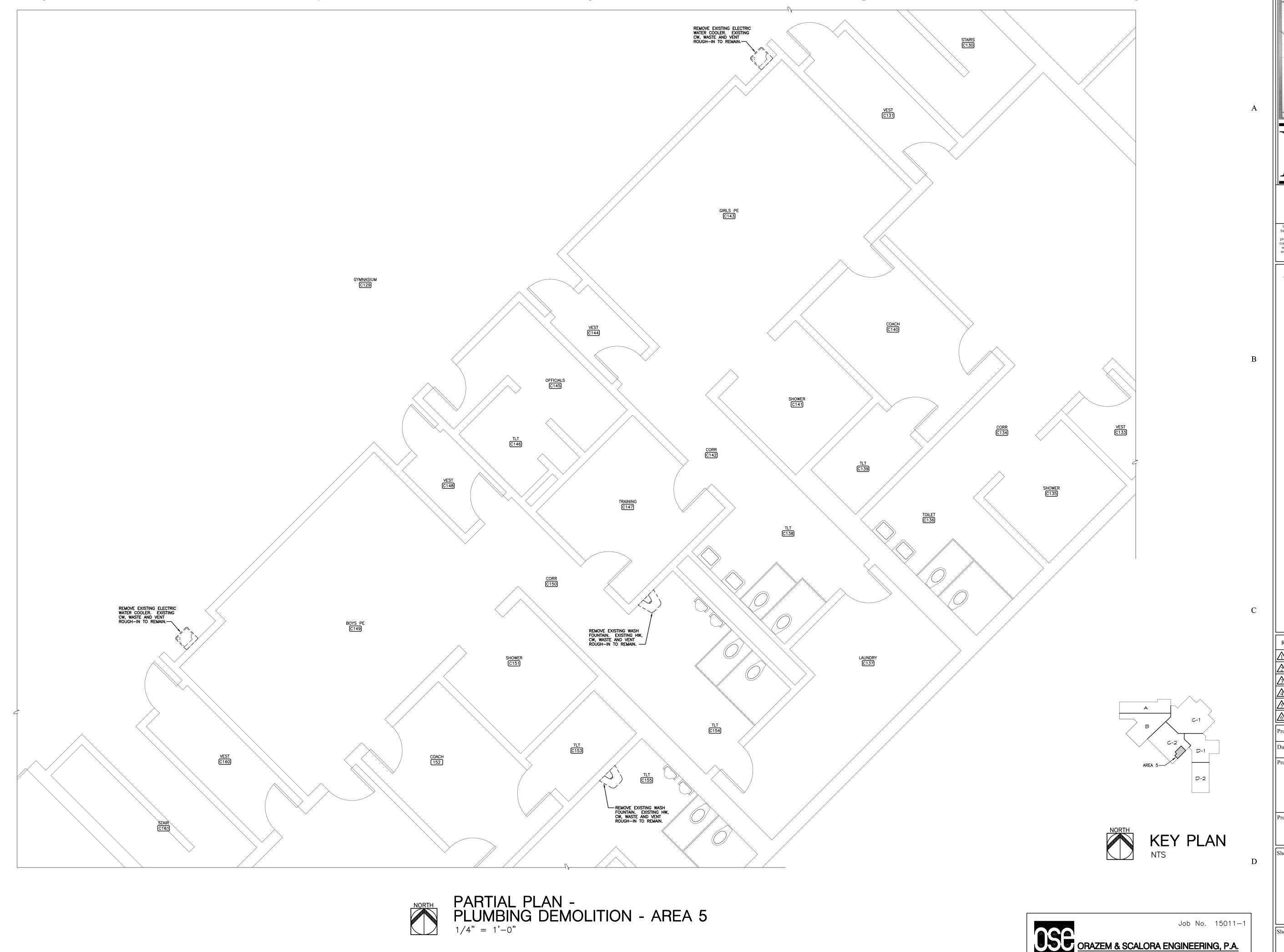


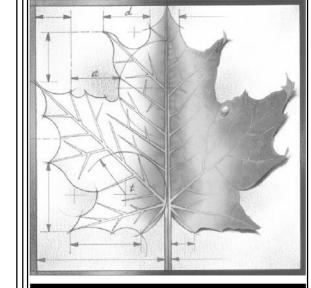
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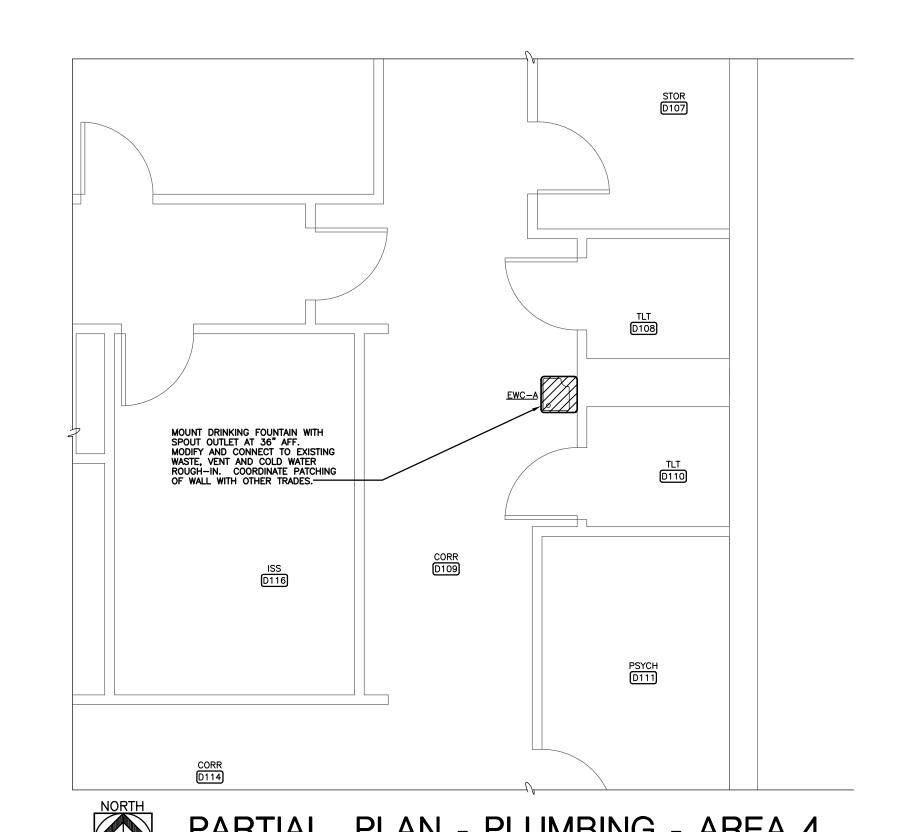
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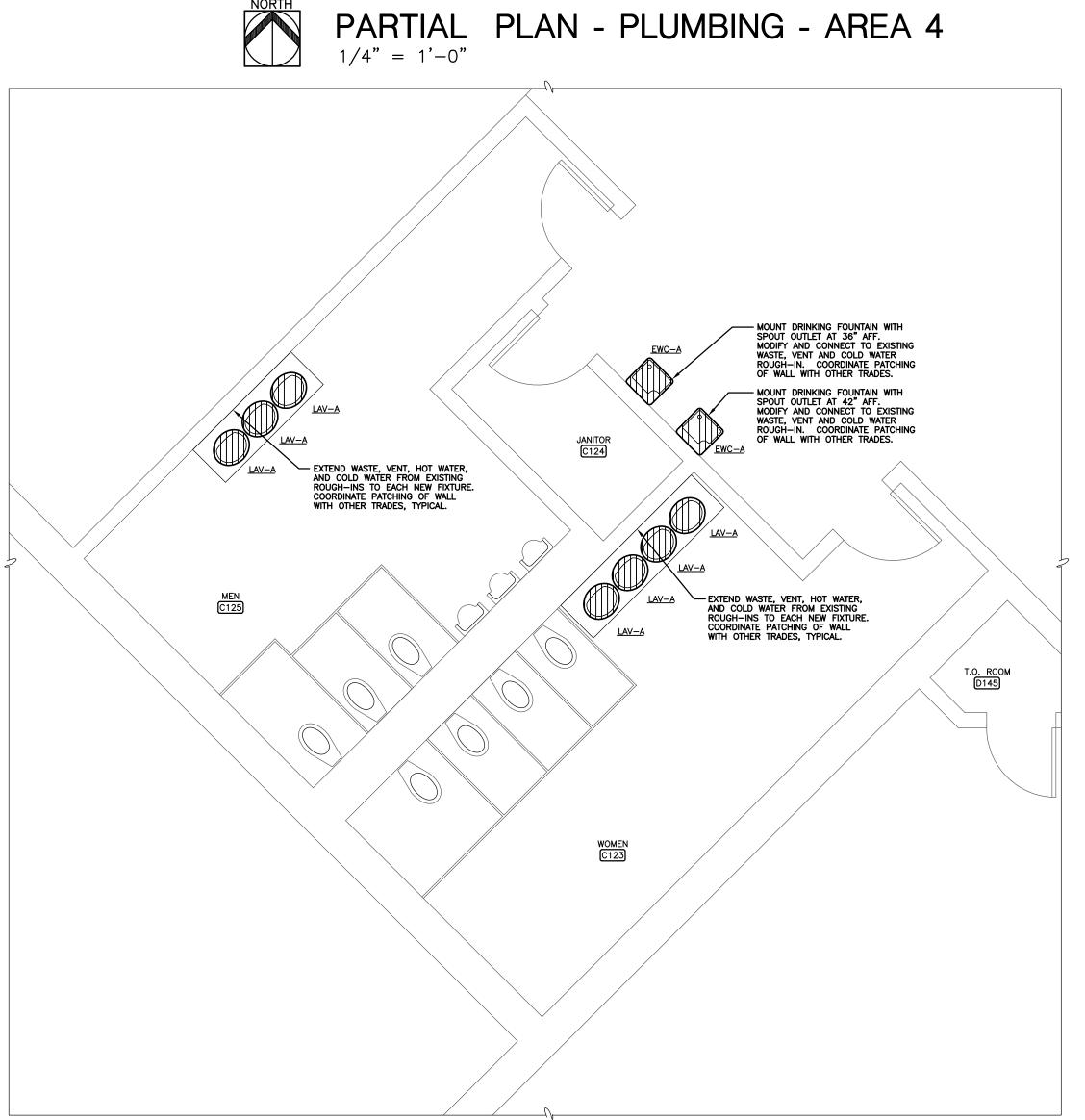
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PLUMBING

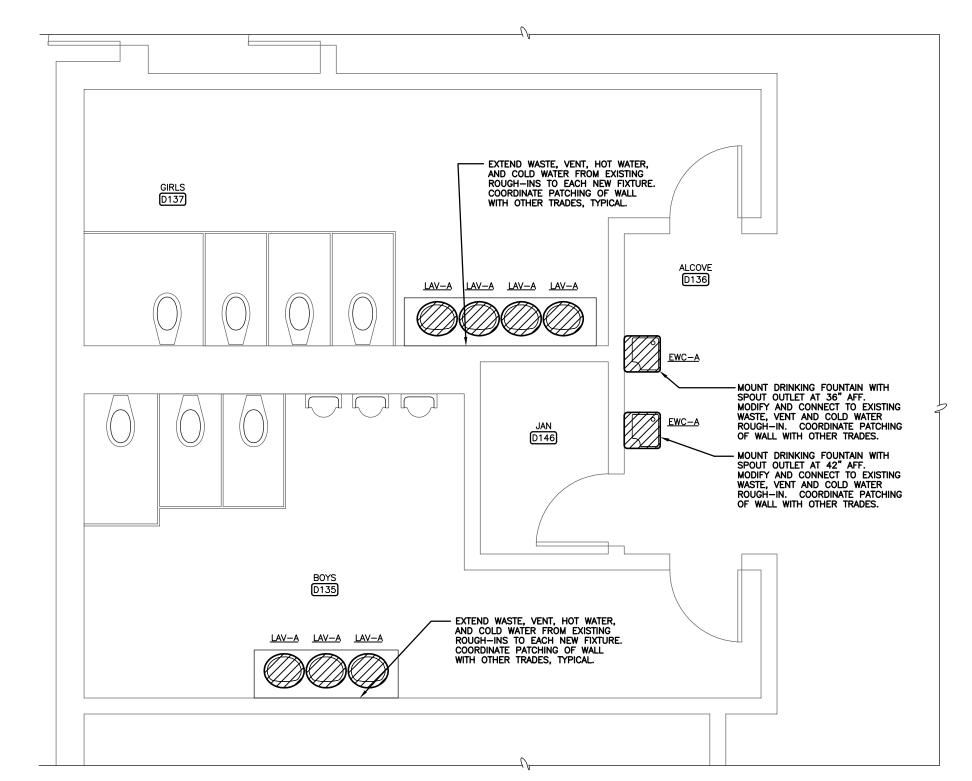
DEMOLITION

P102

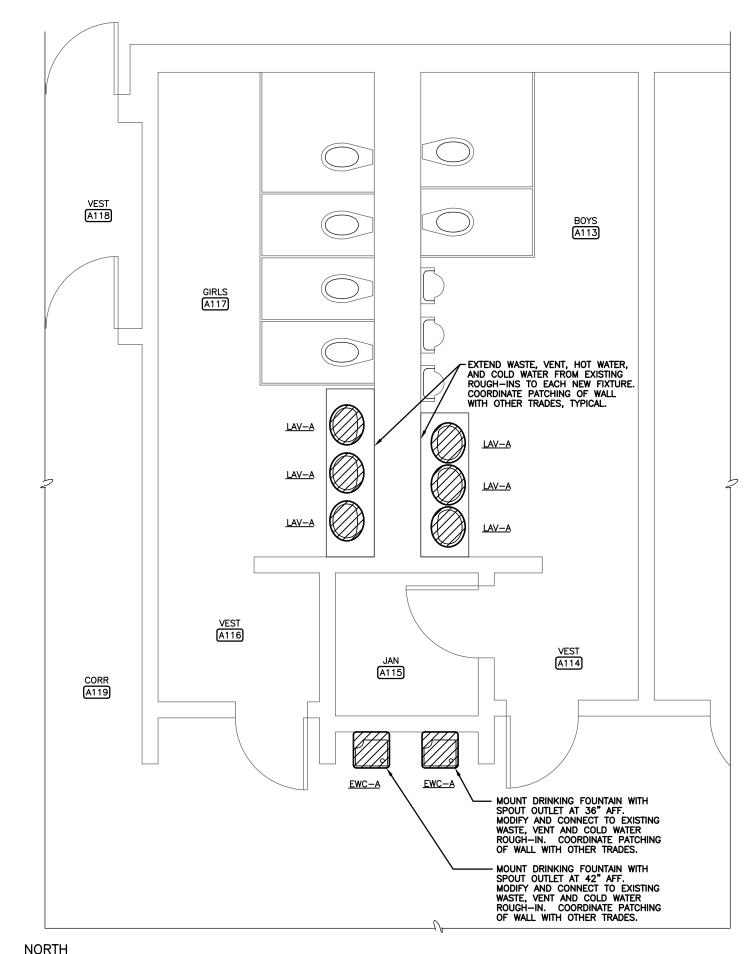




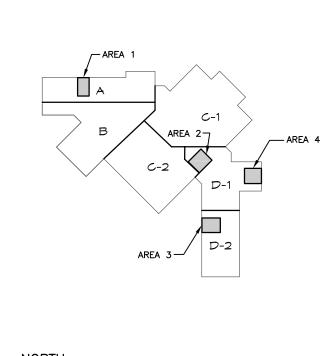




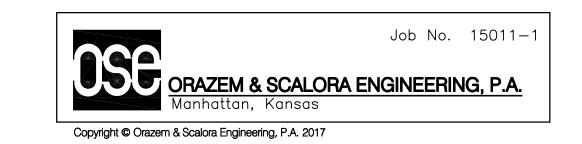


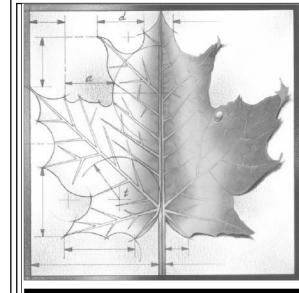












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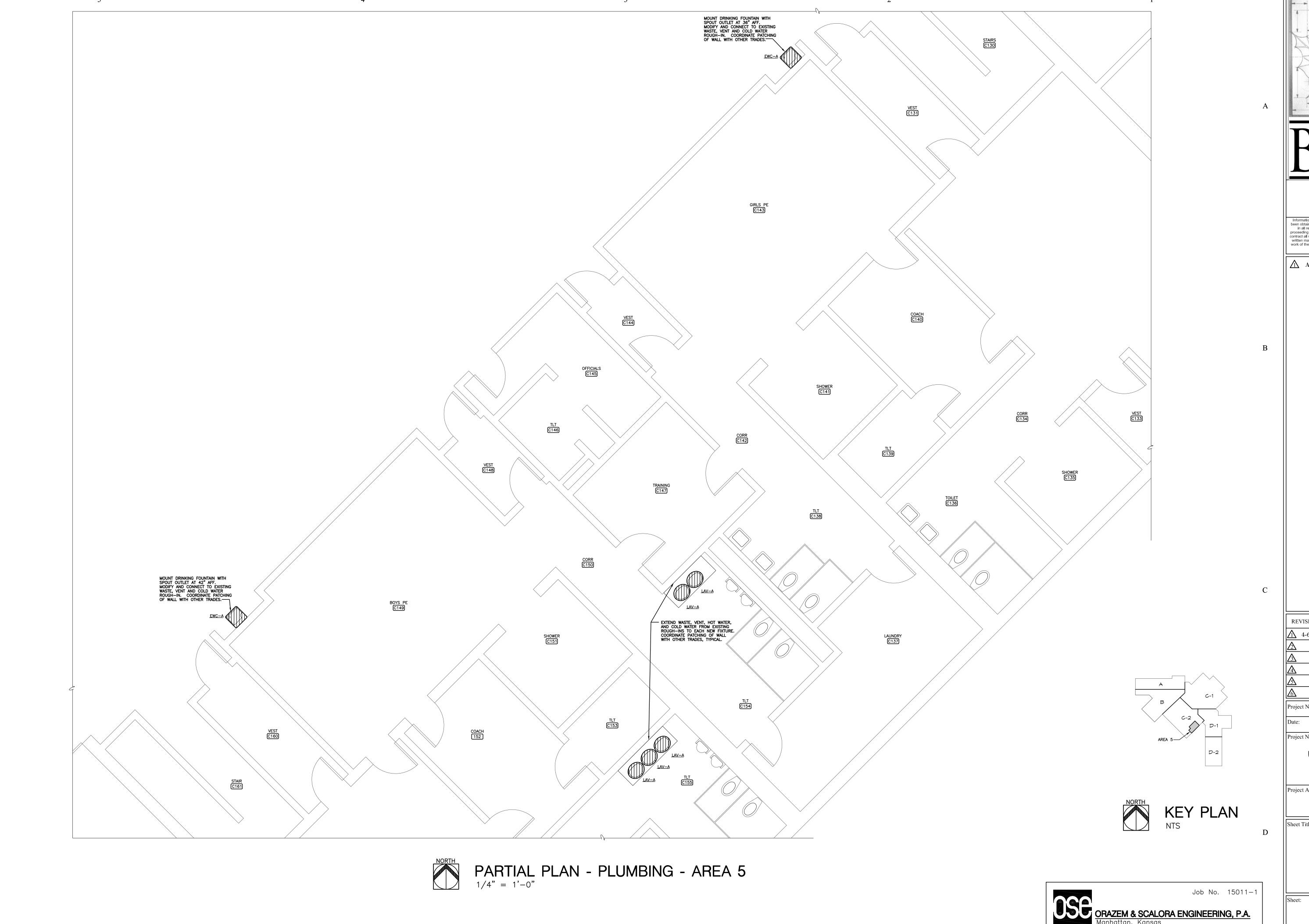
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1701 Kaw Valley Road
Wamego, KS 66547

Sheet Title:

PLUMBING PLAN

P201



BBN ARCHITECTS INC 228 POYNTZ AVENUE MANHATTAN, KS 66502 PH: 785-776-4912 WWW.BBNARCHITECTS.COM

Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect.

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Addendum 1 - 4-6-17

Project Number:

04/04/2017

USD 320 WAMEGO MIDDLE SCHOOL IMPROVEMENTS

1701 Kaw Valley Road Wamego, KS 66547

PLUMBING PLAN

P202

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PARKING LIGHT FIXTURE SCHEDULE MANUF. DESCRIPTION SIZE LAMP Series PRV Prevail area site fixture with heavy—duty, single—piece, die—cast aluminum housing, polyester powder coated finish, low profile 13-15/16" x 26-13/16" x design, U.L. listed for wet location, -40 degree F minimum operating 2-3/4" temperature, thermally isolated driver, and hand-hole access at base of pole. Minimum 70 CRI, and 80% rated lumen output for 100,000 hours. Provide fixture with 4,000K lumen package producing 6,192 lumens at 57 watts, Type III throw. Provide type PS5-07-30WT square straight steel pole, 15' high, 5" nominal shaft dimension, vibration dampener, 0.188" (7 gauge) wall thickness, with 2-3/8" tenon mounting, and (2) fixtures per pole. Finish for fixture and pole to match existing parking

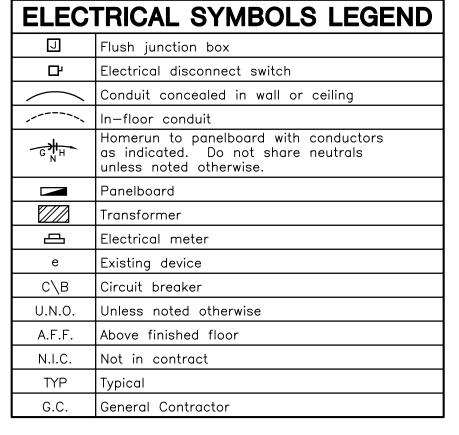
- 1. All fixtures to be supplied at 480 volt AC operation.
- 2. See A/E101 for pole mounting base detail. 3. Pole and fixture must meet windspeed test rating of 90 mph.

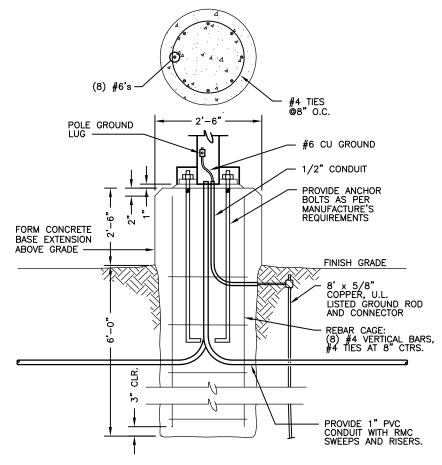
GENERAL ELECTRICAL NOTES

1. Do not scale these drawings.

- 2. These drawings were produced from original drawings, field survey, and measurements. Existing site and building characteristics which are represented on these drawings are believed to be accurate. However, the Contractor shall verify all conditions, materials, and sizes at the site. The Contractor shall verify locations and sizes of all below grade and above grade circuitry, and modify as required for new work.
- 3. Submittal of detailed electrical conduit installation shop drawings are not required. However, the Contractor shall be responsible for field verification of all dimensions and clearances for all system layouts. This shall be accomplished prior to installation 4. These drawings are a schematic representation of the work that is to be accomplished by this Contract.
- 5. Lack of coordination between trades will not be a basis for change orders. Rework of already completed work to accommodate other trades will be performed at the
- 6. Where services to existing equipment, devices or systems which are to remain are interrupted in this work, such services shall be restored so that the existing systems are left in working order.
- 7. See Specifications for additional requirements.
- 8. Coordinate cutting and patching of walls, floors, ceilings, concrete and asphalt with

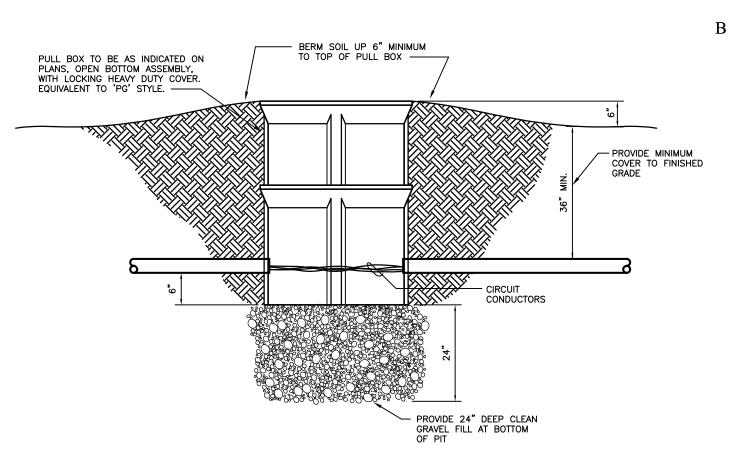
General Contractor. See specification section 017300.



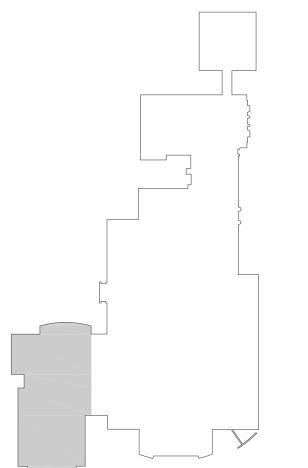


1. Utilize wet location rated connectors for all wire terminations inside of the pole. Before connecting ungrounded conductors to the circuit breaker, test the continuity of the grounding conductor from the pole back to the panel.

PARKING LOT POLE BASE DETAIL

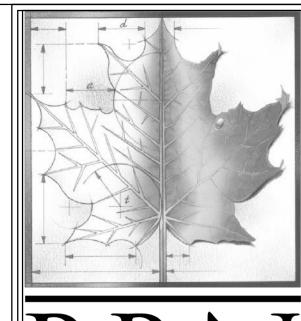


IN-GRADE PULL BOX DETAIL



HIGH SCHOOL KEY PLAN NO SCALE

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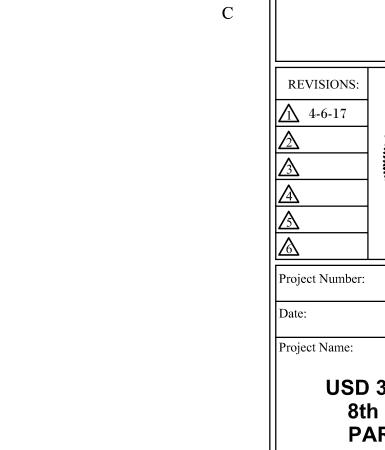
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Addendum 1 - 4-6-17



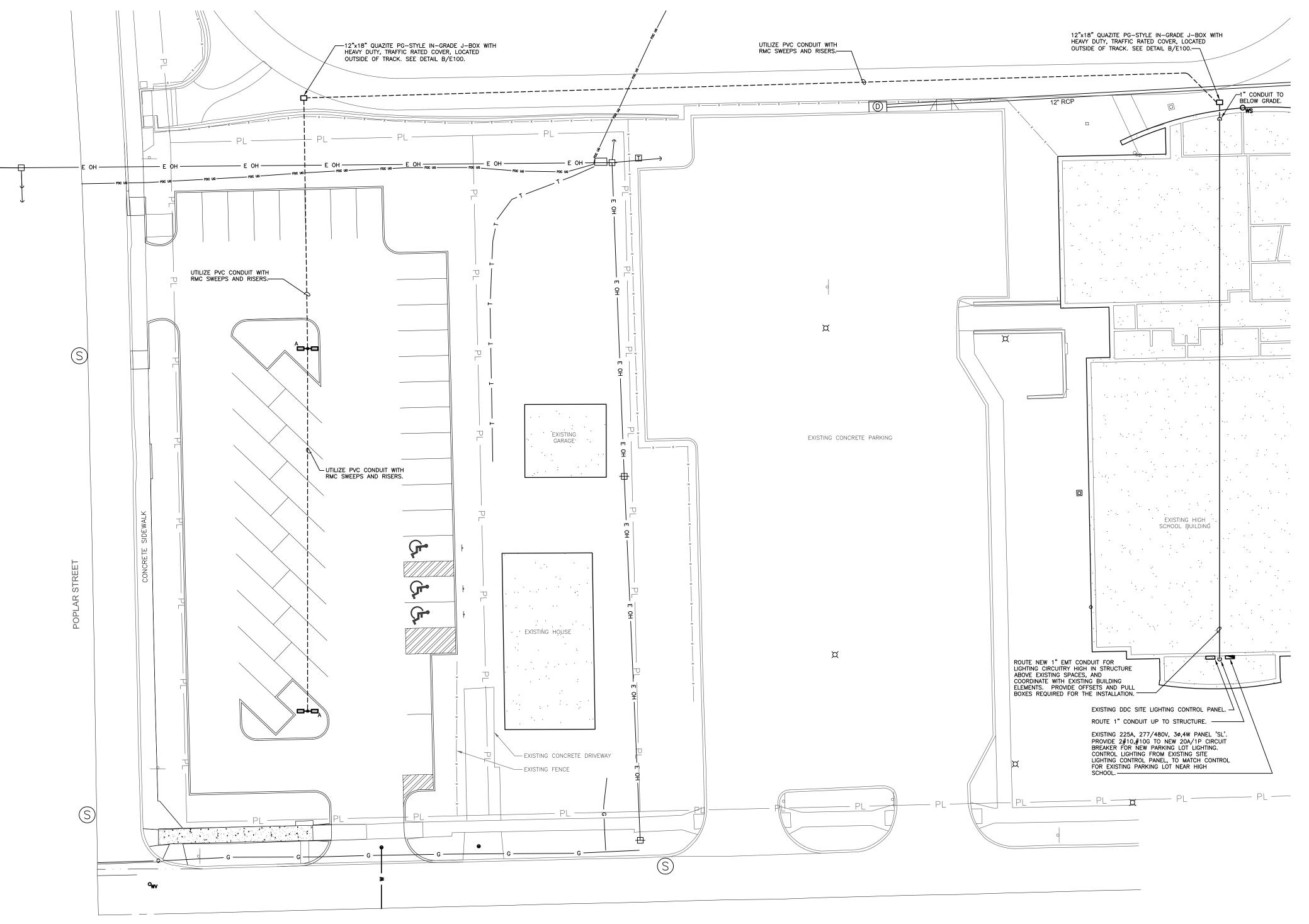
04/04/2017

USD 320 WAMEGO 8th & POPLAR **PARKING LOT**

Wamego, KS 66547

ELECTRICAL

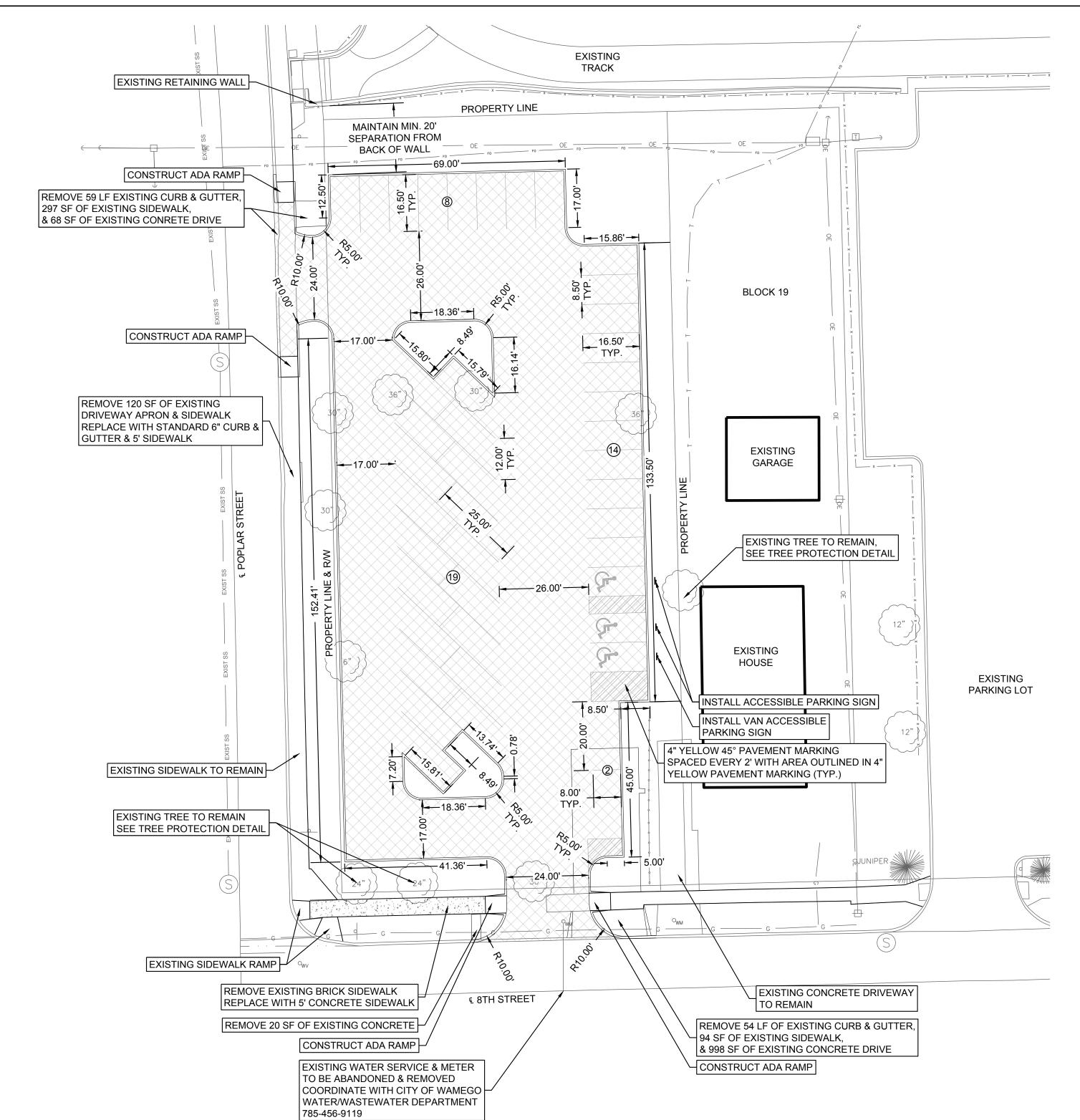
E101



8th & POPLAR PARKING LOT LIGHTING PLAN

8TH STREET

Addendum 1 USD 320-Phase 1-Bid Package 3-2017 Summer Work



LEGEND

CONCRETE PARKING LOT

PROPOSED CONCRETE SIDEWALK

NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM APPROPRIATE REGULATORY AGENCIES (IF APPLICABLE) PRIOR TO COMMENCING THE WORK.

ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF THE PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.

ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS NOTED OTHERWISE. THE REMOVAL OF THESE STRUCTURES IS

WHEELCHAIR SYMBOLS ARE NOT INCLUDED IN SCOPE OF WORK. SHOWN TO DEPICT LOCATION OF ACCESSIBLE STALLS FOR PERMITTING.

ALL EXISTING SIDEWALKS ARE TO REMAIN UNLESS OTHERWISE NOTED.

FOR CONSTRUCTION OF NEW SIDEWALK, PARTIAL PANEL REMOVAL OF EXISTING SIDEWALK WILL NOT BE ALLOWED. IF A PARTIAL PANEL IS REMOVED THEN ENTIRE PANEL SHALL BE REMOVED AND REPLACED AS NEEDED.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

TREES AND SHRUBS WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN CONFLICT WITH PROPOSED NEW CONSTRUCTION AND NOT SHOWN TO BE REMOVED SHALL BE SAVED AND PROTECTED FROM DAMAGE.

TREE PROTECTION MEASURES SHALL IMPLEMENTED FOR ANY TREE WHICH WILL HAVE CONSTRUCTION ACTIVITY LOCATED WITHIN 5 FEET OF THE DRIP LINE.

MINIMIZE DISTURBANCE OF ROOTS WITHIN DRIP LINES OF TREES WHERE CONSTRUCTION ACTIVITY IS PLANNED.

INSTALL TEMPORARY TREE PROTECTION MEASURES PRIOR TO COMMENCING ANY REMOVALS OR SITE DEMOLITION WORK. INSPECT TREE PROTECTION FENCE DAILY, AND MAINTAIN THROUGHOUT THE DURATION OF CONSTRUCTION. REMOVE FENCE WHEN CONSTRUCTION IS COMPLETE.

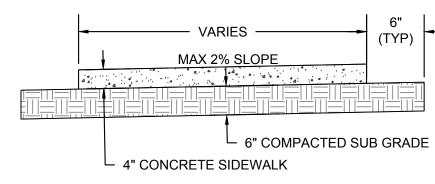
DO NOT STORE MATERIALS, DEBRIS, OR SALVAGED OR EXCAVATED MATERIALS INSIDE THE TREE PROTECTION ZONE. DO NOT PARK VEHICLES OR EQUIPMENT INSIDE THE TREE PROTECTION ZONE.

ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE. NO ON-SITE BURYING OF DEBRIS WILL BE ALLOWED.

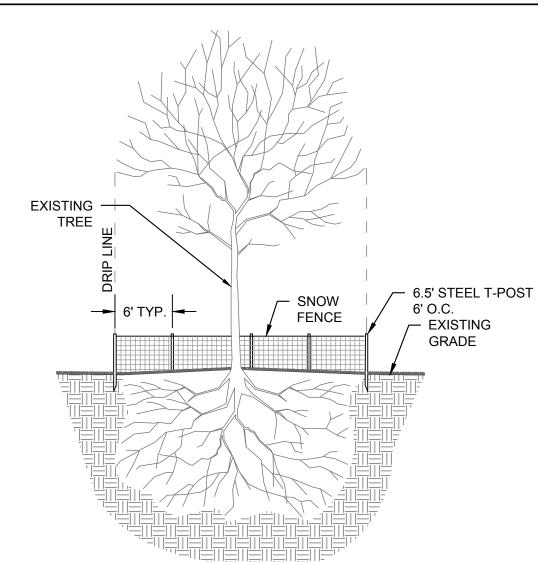
ALL HAUL SITES SELECTED FOR COLLECTION OF DEBRIS SHALL BE APPROVED BY THE OWNER/ENGINEER.

IN LOCATIONS WHERE PROPOSED IMPROVEMENTS ARE NOT LOCATED, REMOVE STUMPS, ROOTS, AND OTHER DEBRIS PROTRUDING THROUGH GROUND SURFACE TO A DEPTH OF 24 INCHES BELOW FINISH SUBGRADE ELEVATION. IN ALL OTHER LOCATIONS COMPLETE REMOVAL IS REQUIRED.

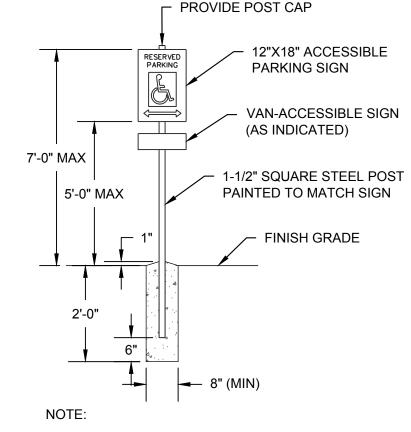
ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER



SIDEWALK & PATIO DETAIL NOT TO SCALE



TREE PROTECTION DETAIL NOT TO SCALE

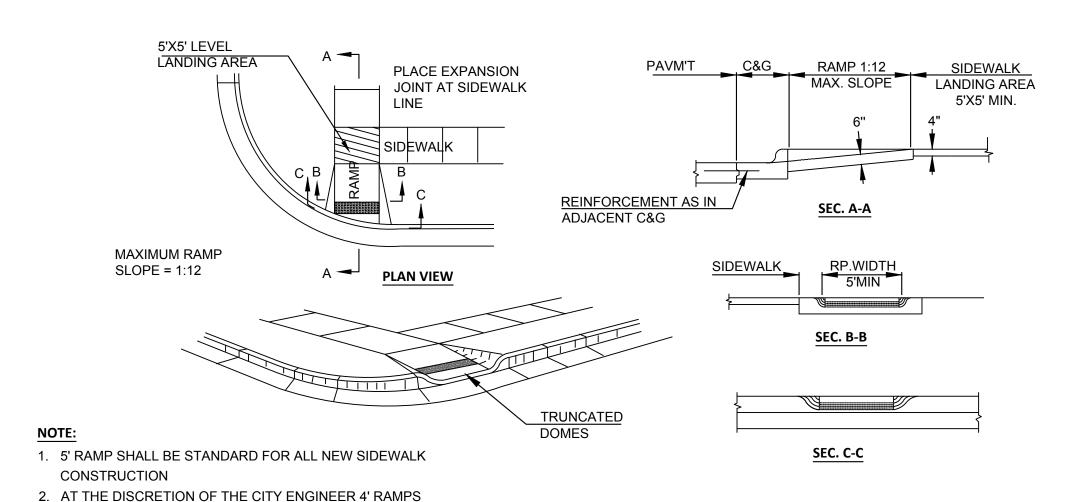


THE CONTRACTOR SHALL PROVIDE AN ACCESSIBLE PARKING SIGN FOR EACH ACCESSIBLE PARKING SPACE INDICATED.

THE CONTRACTOR SHALL PROVIDE A VAN ACCESSIBLE SIGN AT ACCESSIBLE PARKING SPACES AS INDICATED.

THE ACCESSIBLE PARKING SIGNS PROVIDED SHALL CONFORM TO TYPE "R7-8" IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

> ACCESSIBLE STALL SIGN DETAIL NOT TO SCALE



SIDEWALK RAMP TYPE 1

(NOT TO SCALE)

CAUTION - NOTICE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SMH CONSULTANTS NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SMH CONSULTANTS INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON THE SITE.

SHALL BE ALLOWED WHEN REPLACING EXISTING

SIDEWALK

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G

NORTH

SCALE: 1" = 20' PROJECT #: 1702MN4004 CHECKED BY: BML DRAWN BY: KMM DATE:

4/3/2017 SHEET#

TOTAL SHEETS

NOTES

LEGEND

-----1' CONTOUR INTERVAL (EXISTING GROUND)

5' CONTOUR INTERVAL (EXISTING GROUND)

ALL SOIL BROUGHT TO THE SITE AND IN SITU SHALL BE COMPACTED BY ROLLING WITH A SHEEPSFOOT ROLLER OR BY MECHANICAL TAMPING. THE SHEEPSFOOT ROLLER, WHEN FULLY LOADED, SHALL HAVE A LOAD ON EACH TAMPER FOOT NOT LESS THAN

200 POUNDS PER SQUARE INCH OF CROSS-SECTIONAL AREA. ENOUGH MOISTURE

SHALL BE PRESENT IN THE SOIL TO OBTAIN A DENSITY EQUAL TO OR GREATER THAN

95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY

TEST BEFORE PLACING THE NEXT LIFT. EACH LIFT SHALL CONSIST OF 8-INCH LOOSE LIFTS OR LESS PRIOR TO COMPACTION. FILL MATERIAL SHALL BE APPROVED BY A

LICENSED ENGINEER. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SUITABLE

HORIZONTAL & VERTICAL CONTROL

HCP #1: N:323152.693 E:1792004.900 ELEV:1023.72

HCP #2: N:323164.935 E:1792395.733 ELEV:1018.27

HCP #3: N:322719.126 E:1791984.832 ELEV:1045.23

HCP #4: N:322430.049 E:1792055.448 ELEV:1046.86

NUMBER OF PROCTORS FOR VARIOUS FILL MATERIAL.

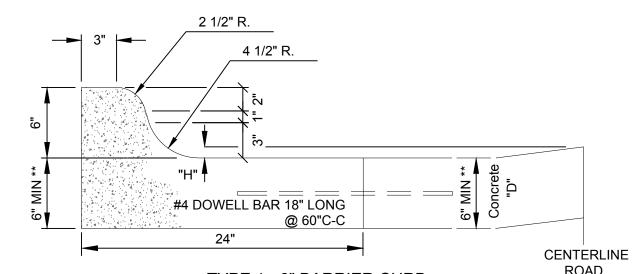
THE CROSS SLOPES OF ALL SIDEWALKS SHALL BE 2% OR LESS.

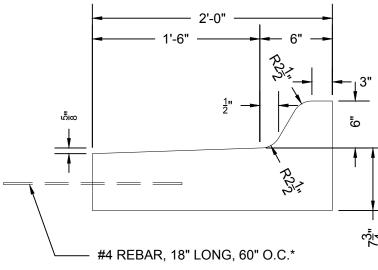
ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE.

5' CONTOUR INTERVAL (PROPOSED GROUND)

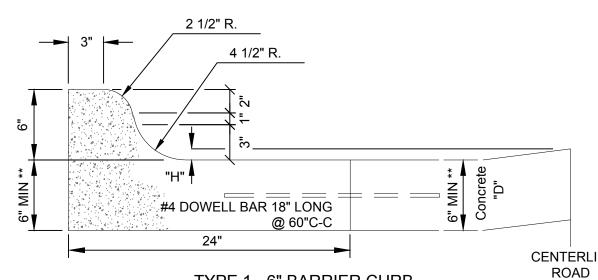
1' CONTOUR INTERVAL (PROPOSED GROUND)

** TOE OF GUTTER SHALL MATCH THICKNESS OF EXISTING OR PROPOSED PAVEMENT





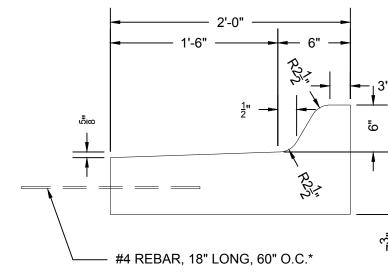
24" REVERSE CURB & GUTTER DETAIL NOT TO SCALE



TYPE 1 - 6" BARRIER CURB NOT TO SCALE

* DOWEL BARS USED ONLY WITH 24" CURB & GUTTER. NOT REQUIRED FOR MONOLITHIC CURB CONCRETE PAVEMENT.

** TOE OF GUTTER SHALL MATCH THICKNESS OF EXISTING OR PROPOSED PAVEMENT



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HIGH

WAME

20

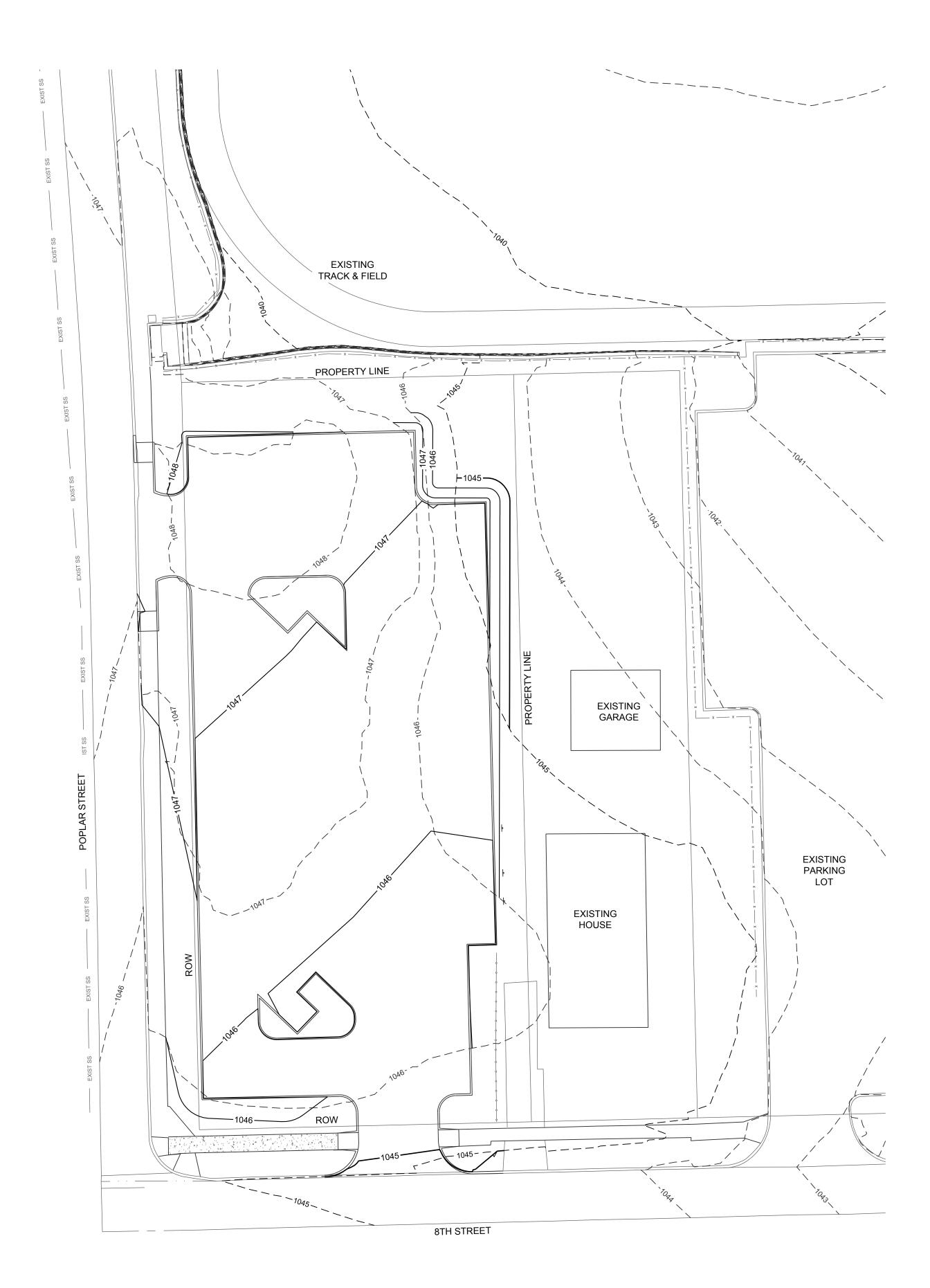
3

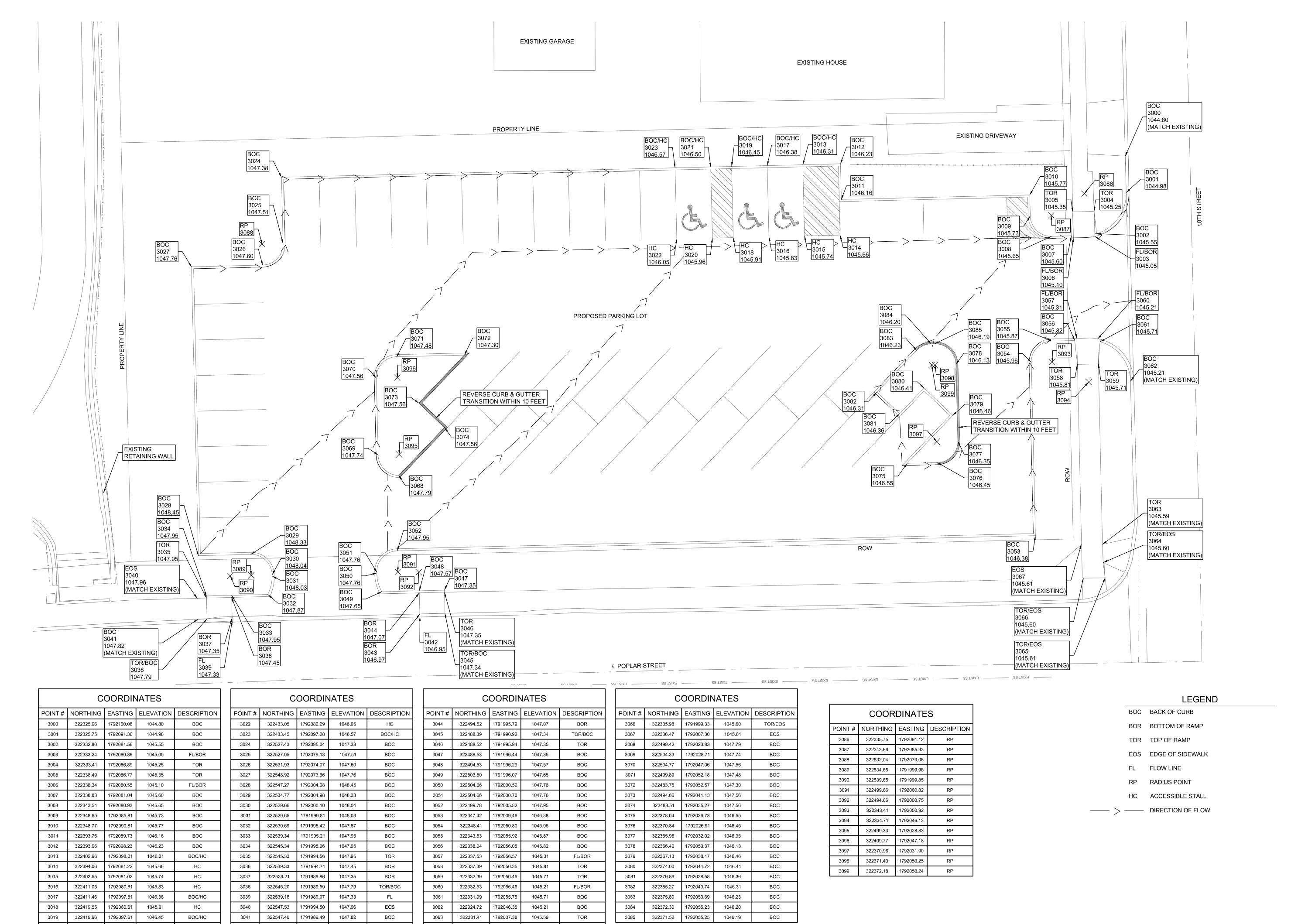
PROJECT #: 1702MN4004

CHECKED BY: BML DRAWN BY: KMM DATE:

4/3/2017 SHEET#

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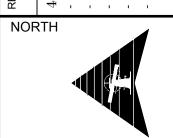
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SCHOOL HBH WAMEGO

20

3

USD



SCALE: 1" = 10' PROJECT #: 1702MN4004 CHECKED BY: BML DRAWN BY: KMM

DATE: 4/3/2017

SHEET#

TOTAL SHEETS

322424.55

322424.95

1792080.49

1792097.49

1045.96

1046.50

HC

BOC/HC

322494.37

322494.39

3043

1791990.03

1791990.76

1046.95

1046.97

BOR

3064

3065

322331.25

322330.80

1792003.02

1791999.37

1045.61

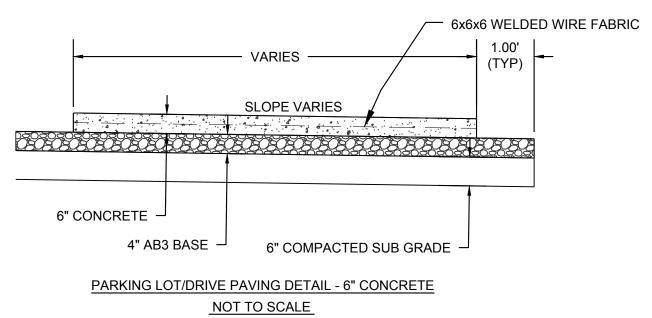
TOR/EOS

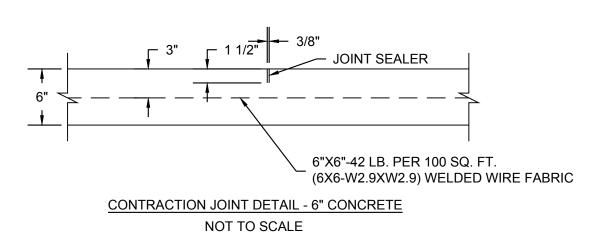
TOR/EOS

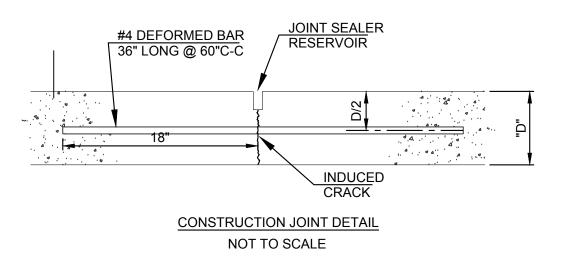
1.00' - VARIES -(TYP) SLOPE VARIES

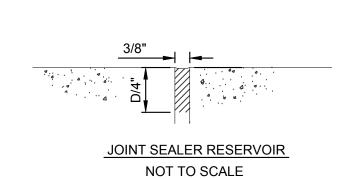
ALL PARKING PAVEMENT IS 6" CONCRETE WITH 12' MAXIMUM JOINT SPACING. ALL SIDEWALKS ARE 4" CONCRETE WITH 5' MAXIMUM JOINT SPACING.

NOTES:











10' 5' 0' SCALE: 1" = 10'

PROJECT #: 1702MN4004 CHECKED BY: BML DRAWN BY: KMM

DATE: 4/3/2017 SHEET#

TOTAL SHEETS

2. LANDSCAPE CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND

3. ALL MATERIAL AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR, FROM DATE OF FINAL ACCEPTANCE. ALL PLANT MATERIAL WATERING & ESTABLISHMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

4. LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. DO NOT PROCEED UNTIL CONDITIONS HAVE BEEN CORRECTED.

5. BEFORE COMMENCING WORK, LANDSCAPE CONTRACTOR SHALL CONTACT APPROPRIATE UTILITY COMPANIES FOR UTILITY LOCATIONS, AND COORDINATE WITH GENERAL CONTRACTOR IN REGARD TO LOCATION OF PROPOSED UTILITIES, CONDUITS, ETC.

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUBMITTALS, CUT SHEETS OF MATERIALS & SOIL TEST RESULTS DIRECTLY TO THE OWNERS REPRESENTATIVE FOR APPROVAL.

7. THE CONTRACTOR SHALL USE ANY AND ALL PRECAUTIONARY MEASURES WHEN PERFORMING WORK AROUND TREES, WALKS, PAVEMENTS, UTILITIES, AND ANY OTHER FEATURES EITHER EXISTING OR PREVIOUSLY INSTALLED UNDER THIS CONTRACT.

8. REMOVE EXCESS SUB GRADE WHERE NECESSARY AND PLACE TOP SOIL A MINIMUM DEPTH OF SIX INCHES (6") IN TURF AND GRASS AREAS AND TWELVE (12") INCHES IN SHRUB BEDS. DISTRIBUTE STOCKPILED TOPSOIL AND PROVIDE ANY ADDITIONAL TOPSOIL NEEDED.

9. ALL PLANT MATERIALS SHALL BE AS SPECIFIED AND MEET OR EXCEED SIZE IN SCHEDULES. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REFUSE PLANT MATERIALS WHICH DO NOT MEET THE QUALITY REQUIRED FOR THE PROJECT.

10. ALL SHADE TREES MUST NOT HAVE LIMBS THAT ARE LESS THAN 6' FROM THE ROOT CROWN. AFTER TWO YEARS OF GROWTH SHADE TREES SHALL HAVE THE LOWER LIMBS REMOVED SO THAT THERE WILL BE 8' OF CLEARANCE ABOVE ANY PAVED SURFACE. EACH TREE THAT IS LIMBED UP MUST HAVE LIMBS REMOVED ALL THE WAY AROUND THE TREE SO THAT IT IS EVENLY BALANCED.

11. ALL TREE AND SHRUB BED LOCATIONS ARE TO BE STAKED OUT ON SITE FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

12. ALL CONVENTIONAL PLANTING BEDS AND MULCH AREAS ARE TO BE CONTAINED WITH STEEL EDGER AS SHOWN ON THE PLANS AND DEFINED IN THE DETAILS AND SPECIFICATIONS. EDGER IS NOT REQUIRED ADJACENT TO CURBS, WALKS, OR BUILDINGS.

13. STEEL EDGER SHALL BE 4-INCH DEPTH, 1/8 INCH THICKNESS, INTERLOCKING STEEL EDGE, PAINTED GREEN WITH A ROUNDED NON CUT TOP, STAKED WITH METAL STAKES SUFFICIENTLY TO HOLD IN PLACE; AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

> SHADE TREES: LOWEST LIMBS MIN. 6-8' FROM ROOT CROWN AFTER TWO YEARS NO LIMB SHALL BE WITHIN 8' OF PAVEMENT

PRUNE ALL DEAD OR DAMAGED WOOD PRIOR TO PLANTING.

WRAP ENTIRE SURFACE OF TRUNK BELOW SECOND BRANCH

ATTACH GUY WIRE TO TRUNK WITH SPECIFIED TREE COLLAR.

DOUBLE STRAND OF 12 GA. GALVANIZED STEEL WIRE TWISTED

NOT NECESSARY WHEN TURF OR DRIP IRRIGATION IS OPERATING.

STEEL POST (2 MIN.) DRIVEN VERTICALLY TO EXTEN A MIN. OF 30"

SET ROOT CROWN LEVEL WITH TOP OF SOIL ADJACENT TO TREE &

2" ABOVE FINISHED GRADE IN SOD AREAS, FLUSH IN OTHER AREAS

DOUBLE SUBSURFACE DRIP IRRIGATION RINGS APPROX. 24" & 48" DIA.

1/2" DIA.. WHITE PVC PIPE OVER WIRE, 24" LONG MIN.

APPLY SPECIFIED MULCH TO REMAIN PERMANENTLY.

SIDES OF ROOTBALL THAT IS NOT 100% HEMP.

HOLE SHOULD HAVE ROUGHENED SIDES

UNDISTURBED SUBGRADE

REMOVE ALL CONTAINMENT MATERIAL FROM THE TRUNK &

REMOVE BURLAP & TWINE FROM THE TOP 1/3 OF ROOTBALL

REMOVE FIBER OR PLASTIC POT AFTER PLACING IN THE PIT

SPECIFIED BACKFILL MIXTURE AND FERTILIZER APLICATION

IS REMOVED ARE DAMAGED AND SHALL BE REJECTED.

ROOTBALLS THAT ARE BROKEN APART AFTER CONTAINMENT

TEMPORARY 4" DEEP WATER RETENTION BASIN

DO NOT CUT OR DAMAGE LEADER.

WITH TREE WRAP AND SECURE.

INTO UNDISTURBED SOIL

FINISHED GRADE

2 x ROOTBALL DIA.

NOT TO SCALE

DECIDUOUS TREE PLANTING

14. CEDAR MULCH IS TO BE SPREAD FOUR (4) INCHES DEEP FOR ALL LANDSCAPE AREAS UNLESS NOTED OTHERWISE ON THE PLAN. ALL CONVENTIONAL PLANTING BEDS CONTAINED BY EDGER WILL BE UNIFORMLY MULCHED. APPLY PRE-EMERGENT HERBICIDE UNDER THE MULCH PER MANUFACTURER SPECIFICATIONS.

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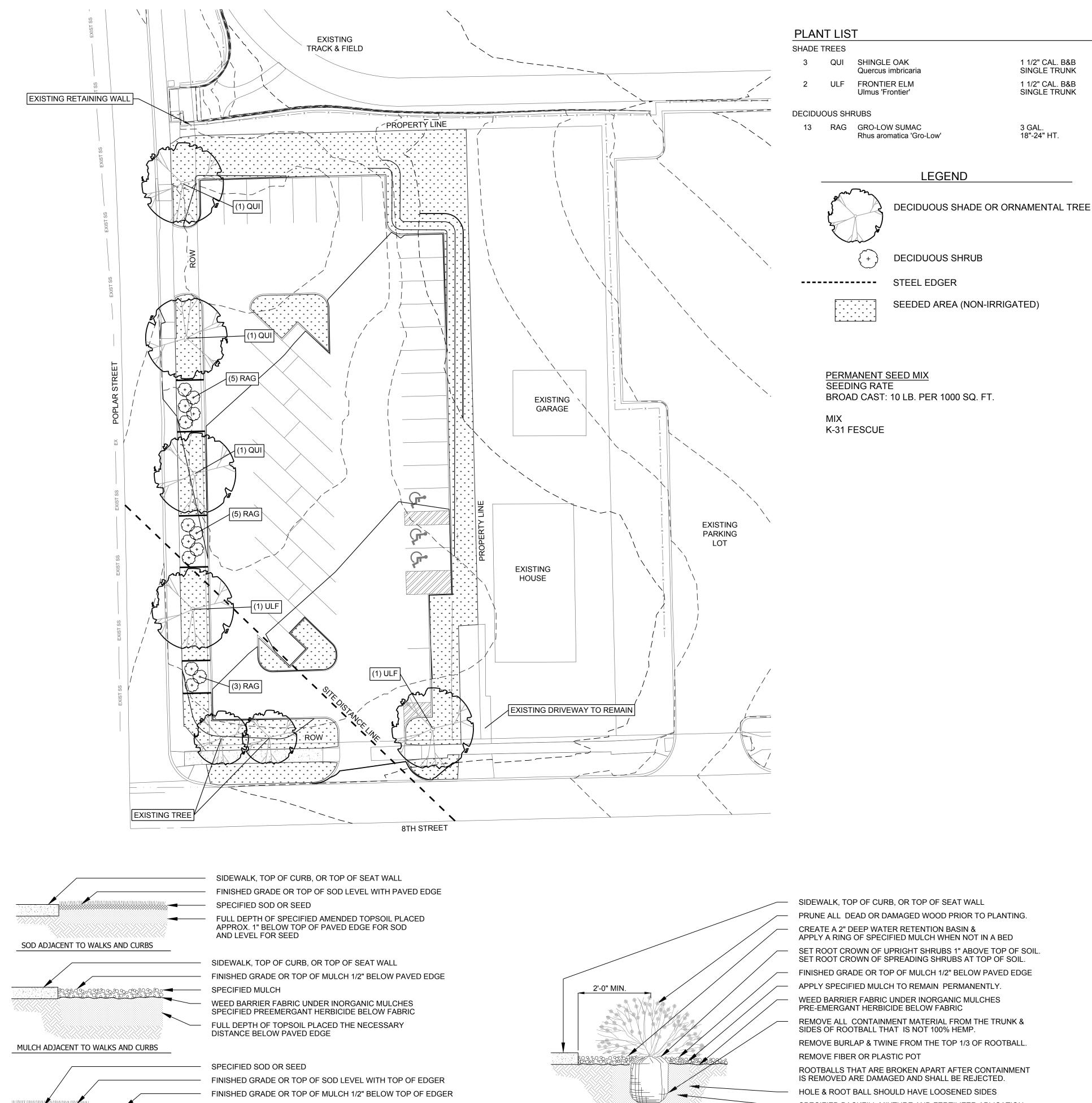
NORTH

SCALE: 1" = 20'

PROJECT #: 1702MN4004 CHECKED BY: KL DRAWN BY: KMM DATE:

4/3/2017 SHEET#

TOTAL SHEETS



SPECIFIED MULCH

EDGER

Addendum 1

EDGE TREATMENT

NOT TO SCALE

WEED BARRIER FABRIC UNDER INORGANIC MULCHES

SPECIFIED PREEMERGANT HERBICIDE BELOW FABRIC

FULL DEPTH OF TOPSOIL PLACED THE NECESSARY

DISTANCE BELOW TOP OF EDGER

SPECIFIED BACKFILL MIXTURE AND FERTILIZER APLICATION LIGHTLY COMPACTED

PLACE 3" OF SPECIFIED BACKFILL BELOW THE ROOT BALL UNDISTURBED SUBGRADE

SHRUB PLANTING

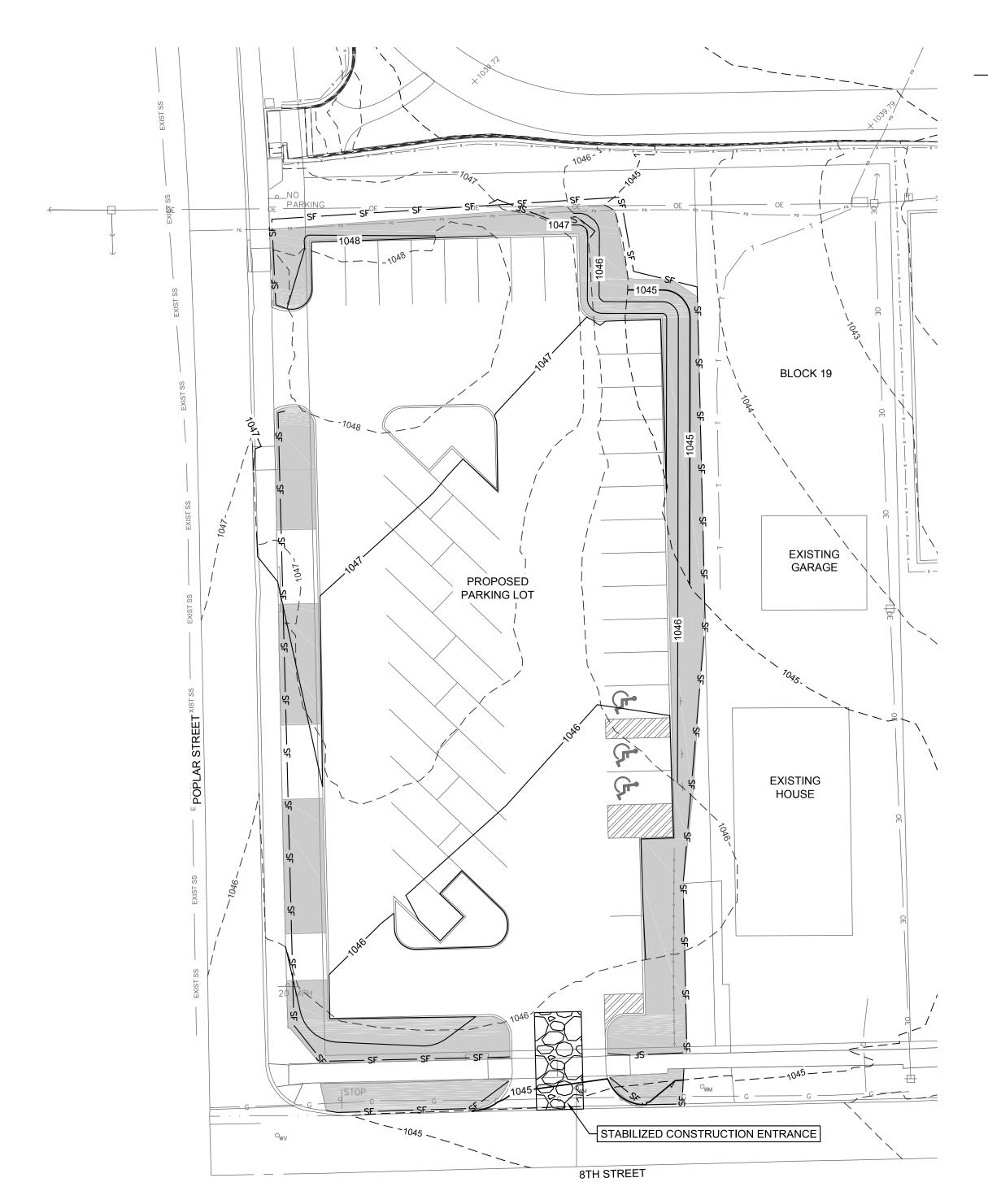
2 x ROOTBALL DIA.

NOT TO SCALE

USD 320-Phase 1-Bid Package 3-2017 Summer Work

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USD 320-Phase 1-Bid Package 3-2017 Summer Work Addendum 1 Page 22 of 33



LEGEND

PERMANENT SEEDING

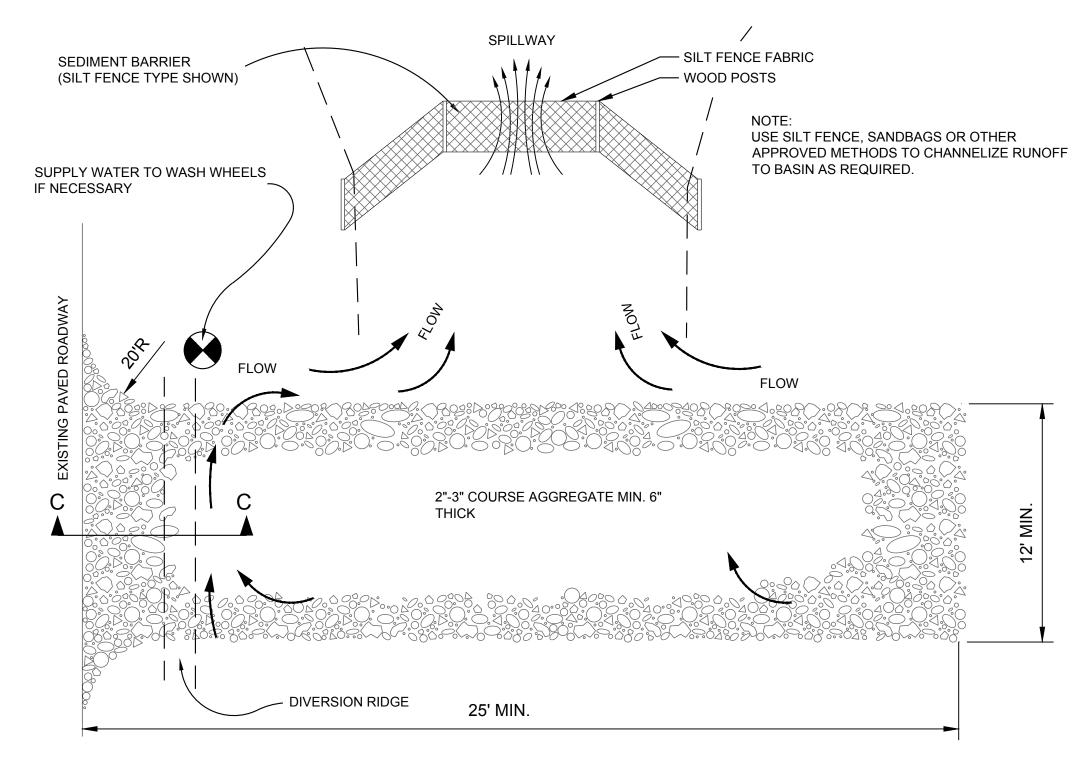
CONTRACTOR TO COMPLY WITH CITY OF WAMEGO STORM WATER MANAGEMENT REQUIREMENTS.

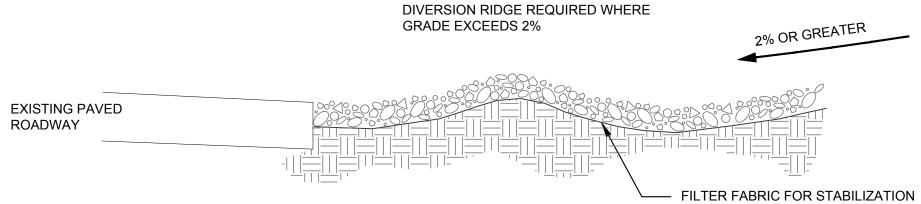
PERMANENT SEEDING SHALL INCLUDE ALL DISTURBED SOIL.

CONTRACTOR SHALL DESIGNATE A TRUCK WASHOUT AREA.

SEEDING QUANTITIES:

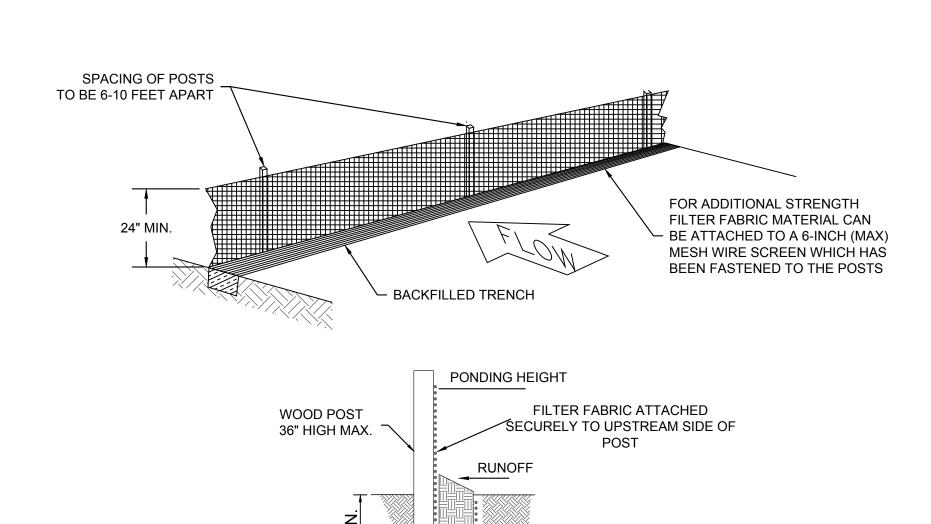
PERMANENT SEEDING: 0.2 AC





STABILIZED CONSTRUCTION ENTRANCE NOT TO SCALE

SECTION C-C



SILT FENCE BARRIERS NOT TO SCALE

4"X6" TRENCH WITH

COMPACTED BACKFILL



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WAME

320

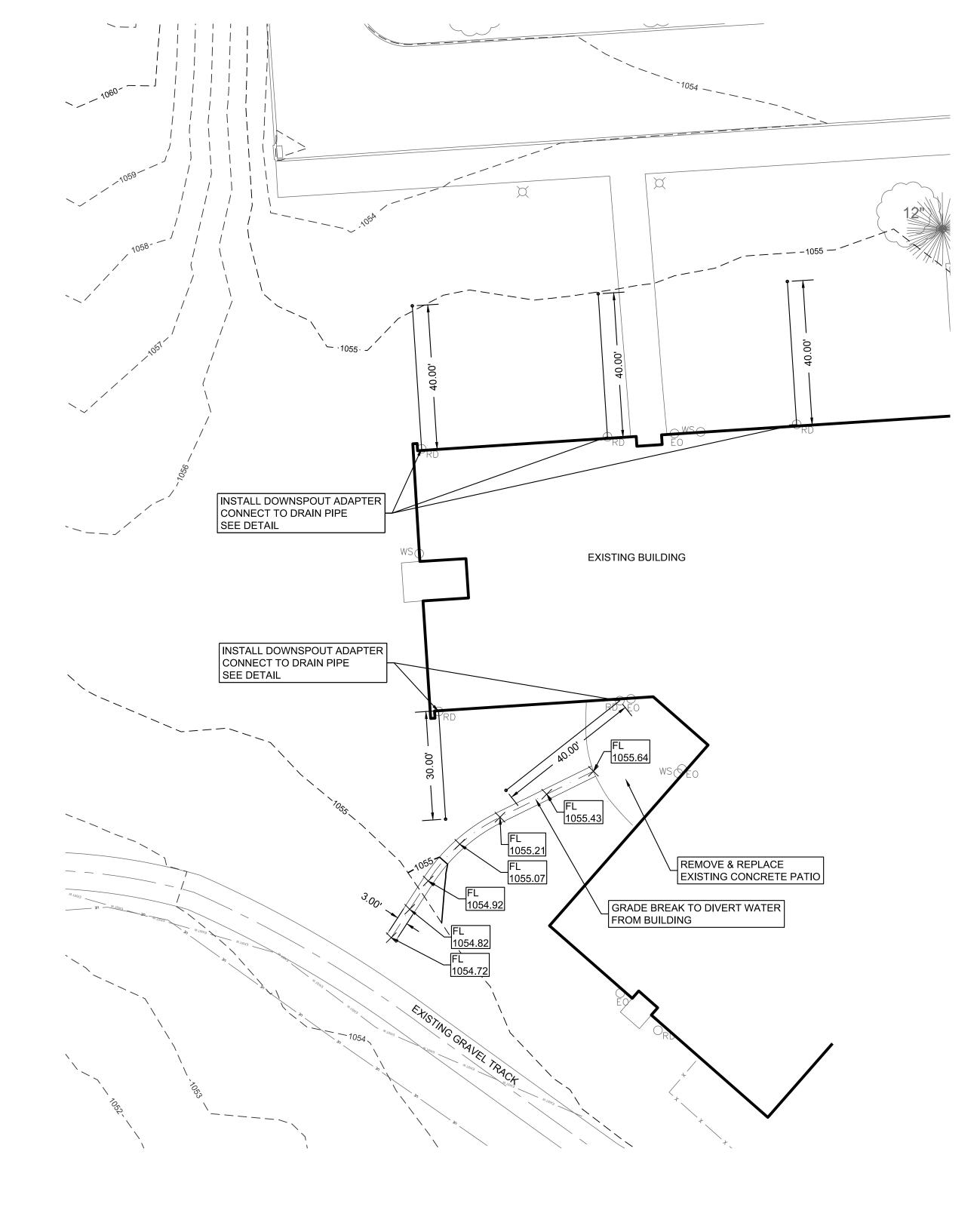


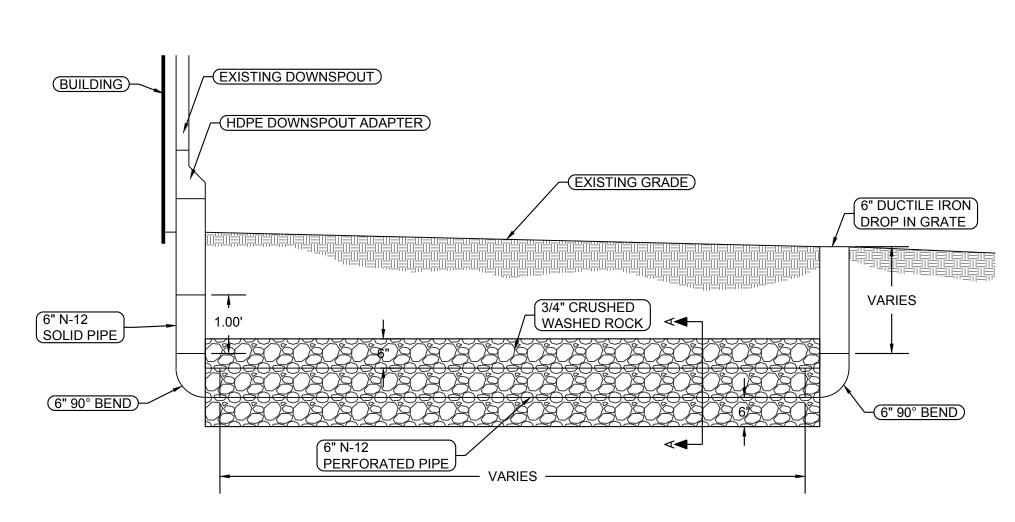
SCALE: 1" = 20' PROJECT #: 1702MN4004 CHECKED BY: BML DRAWN BY: KMM

DATE: 4/3/2017

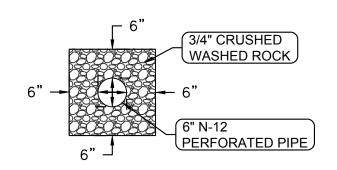
SHEET#

TOTAL SHEETS





TYPICAL DOWNSPOUT PROFILE DETAIL NOT TO SCALE



TYPICAL SECTION A-A DETAIL NOT TO SCALE



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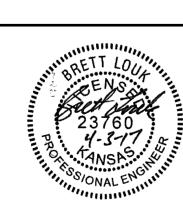
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20' 10' 0' SCALE: 1" = 20'

PROJECT #: 1702MN4004 CHECKED BY: BML DRAWN BY: KMM

4/3/2017 SHEET#

TOTAL SHEETS

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SECTION 09 91 23 - INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following interior substrates:
 - 1. Concrete.
 - 2. Concrete masonry units (CMUs).
 - 3. Steel and iron.
 - 4. Galvanized metal.
 - 5. Gypsum board.
 - 6. Wood surfaces.

1.3 **DEFINITIONS**

- A. Gloss Levels: The following gloss designations as determined in accordance with ASTM D 523 apply to paint products specified in this Section:
 - 1. "Flat" refers to a lusterless or matte finish with a gloss range below 5 when measured at a 60-degree meter.
 - 2. "Eggshell" refers to low-sheen finish with a gloss range between 10 and 20 when measured at a 60-degree meter.
 - 3. "Satin" refers to low-sheen finish with a gloss range between 20 and 35 when measured at a 60-degree meter.
 - 4. "Semi-Gloss" refers to medium-sheen finish with a gloss range between 35 and 70 when measured at a 60-degree meter.
 - 5. "Gloss" refers to high-sheen finish with a gloss range more than 70 when measured at a 60-degree meter.
- B. Areas Subject to Moisture: These spaces are those that have permanent plumbing connections and appliances. These include, but are not limited to, toilet rooms, janitor's closets, locker rooms, shower rooms, training rooms, and laundries.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Indicate VOC content.

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- B. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
 - 1. Submit Samples on rigid backing, 8 inches (200 mm) square.
 - 2. Apply coats on Samples in steps to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.
- C. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

1.5 INFORMATIONAL SUBMITTALS

A. Test results: Provide detailed records of results of each of the physical and visual tests used in determining the suitability of the existing painted surfaces for overcoating.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Paint: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

1.7 **OUALITY ASSURANCE**

- A. Benchmark Samples (Mockups): Provide a full-coat benchmark finish sample of each type of coating and substrate required on the Project. Comply with procedures specified in Painting and Decorating Contractors of America (PDCA) P5. Duplicate finish of approved Samples.
 - 1. Architect will select one room or surface to represent surfaces and conditions for each type of coating and substrate to be painted.
 - a. Wall Surfaces: Provide samples on at least 100 square feet (9 sq. m).
 - b. Small Areas and Items: Architect will designate an item or area required.
 - 2. After permanent lighting and other environmental services have been activated, apply coatings in this room or to each surface according to the Schedule or as specified. Provide required sheen, color, and texture on each surface.
 - a. After finishes are accepted, Architect will use the room or surface to evaluate coating systems of a similar nature.
 - 3. Final approval of colors will be from benchmark samples.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).

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- 1. Maintain containers in clean condition, free of foreign materials and residue.
- 2. Remove rags and waste from storage areas daily.

1.9 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Benjamin Moore & Co.
 - 2. Dulux (formerly ICI Paints); a brand of AkzoNobel.
 - 3. PPG Architectural Coatings.
 - 4. Rust-Oleum Corporation; a subsidiary of RPM International, Inc.
 - 5. Sherwin-Williams Company (The).
 - 6. Tnemec, Inc.

2.2 PAINT, GENERAL

- A. Material Compatibility:
 - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
- B. VOC Content of Field-Applied Interior Paints and Coatings: Provide products that comply with the following limits for VOC content, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24); these requirements do not apply to paints and coatings that are applied in a fabrication or finishing shop:
 - 1. Flat Paints and Coatings: VOC content of not more than 50 g/L.
 - 2. Nonflat Paints, Coatings, and Primers: VOC content of not more than 175 g/L.
 - 3. Anti-Corrosive and Anti-Rust Paints Applied to Ferrous Metals: VOC not more than 250 g/L.
- C. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicat-

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- ed. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
- 1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish manufacturer's material data and certificates of performance for proposed substitutions.

2.3 PAINT COLORS

- A. Basis-of-Design Colors: The design is based on the colors indicated by manufacturer's designations in the Finish Schedule Legend. Subject to compliance with requirements, provide exact duplicates of the named colors.
- B. Colors: Match Architect's samples.

2.4 PAINT MATERIALS

A. Basis-of-Design Products: The design for each type of paint is based on the products named. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.

B. Primers:

- Water-Based Epoxy Block Filler: Tnemec Series 1254, Epoxoblock WB, Color 1202 Off-White
- 2. Waterborne Modified Polyamine Epoxy Primer: Tnemec Series 151-1051 "Elasto-Gtip FC."
- 3. Rust Inhibiting Primer for Non-Galvanized Ferrous Metal: Tnemec Series 135 "Chembuild."
- 4. Wood Primer: Tnemec Series V10 "Tnemec Primers," Color 1009 Gray.
- 5. Latex Based Interior Primer: Sherwin-Williams ProMar 200, "Interior Latex Primer, B28W02600."

C. Interior Finish Coat Material:

- 1. Semi-Gloss Acrylic Polymer: Tnemec Series 1029 "Enduratone."
- 2. Satin Waterborne Acrylic Epoxy Finish: Tnemec, Series 113 H.B. Tneme-Tufcoat.
- 3. Latex-based Interior Semi-Gloss: Sherwin Williams "ProMar 200 Zero Interior Latex, Series B31-2600."
- 4. Latex-based Interior Eggshell: Sherwin Williams "ProMar 200 Zero Interior Latex, Series B20-2600."

2.5 SOURCE QUALITY CONTROL

- A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:
 - 1. Owner will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If

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- paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
- 2. Testing agency will perform tests for compliance with product requirements.
- Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
 - 1. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
 - 2. Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
 - 3. Start of painting will be construed as Applicator's acceptance of surfaces and conditions within a particular area.
- B. Testing of existing masonry surfaces: Applicator shall evaluate the existing paint systems to determine if surfaces are acceptable for overcoating. Issues to be addressed included, but are not limited to, total film thickness, number of coats, quality of adhesion to the substrate and between coats, and defects in the film.
 - 1. Perform the following physical tests at a minimum of 3 locations for the corridors and 3 locations in toilet rooms:
 - a. Measure total dry film thickness and number of coats with a Tooke gauge.
 - b. Visually inspect the film for defects such as delamination, cracking and blistering.
 - c. Check adhesion at the same locations where dry film thickness readings were taken, using the following adhesion test methods:
 - "X" Scribe and Tape Test Conduct this test in accordance with ASTM D 3359 Standard Test Methods for Measuring Adhesion by Tape Test, Method A.
 - 2) Knife Adhesion Probe at the coating with the point of a knife blade in an attempt to delaminate the coating system between coats or from the substrate.
 - 2. Document the results of each test.
- C. Test Patches: Before application of coatings, apply test patches as directed by the Architect to determine adhesion of the new coating system to the existing substrates. Use ASTM D 5064

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Standard Practice for Conducting a Patch Test to Assess Coating Compatibility, as a guide in conducting these test patches.

- D. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Concrete: 12 percent.
 - 2. Fiber-Cement Board: 12 percent.
 - 3. Masonry: 12 percent.
 - 4. Wood: 15 percent.
 - 5. Gypsum Board: 12 percent.
- E. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
 - 2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
- D. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.
 - 1. Provide barrier coats over incompatible primers or remove and reprime.
 - 2. Cementitious Materials: Prepare concrete and concrete masonry surfaces to be painted. Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.
 - a. Use power-tool methods, including circular grinding sanding, if recommended by paint manufacturer.
 - b. Determine alkalinity and moisture content of surfaces by performing appropriate tests. If surfaces are sufficiently alkaline to cause the finish paint to blister and burn, correct this condition before application. Do not paint surfaces where moisture content exceeds that permitted in manufacturer's written instructions.

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- 3. Wood: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sand surfaces exposed to view smooth and dust off.
 - a. Scrape and clean small, dry, seasoned knots, and apply a thin coat of white shellac or other recommended knot sealer before applying primer. After priming, fill holes and imperfections in finish surfaces with putty or plastic wood filler. Sand smooth when dried.
 - b. Prime, stain, or seal wood to be painted immediately on delivery. Prime edges, ends, faces, undersides, and back sides of wood, including cabinets, counters, cases, and paneling.
 - c. If transparent finish is required, backprime with spar varnish.
 - d. Backprime paneling on interior partitions where masonry, plaster, or other wet wall construction occurs on back side.
 - e. Seal tops, bottoms, and cutouts of unprimed wood doors with a heavy coat of varnish or sealer immediately on delivery.
- 4. Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with surface preparation specifications prepared by The Society for Protective Coatings (SSPC).
 - a. Abrasive blast clean steel surfaces as recommended by paint system manufacturer and according to requirements of SSPC-SP 6, Commercial Blast Cleaning.
 - b. Treat bare and sandblasted or pickled clean metal with a metal treatment wash coat before priming.
 - c. Touch up bare areas and shop-applied prime coats that have been damaged. Wirebrush, clean with solvents recommended by paint manufacturer, and touch up with the same primer as the shop coat.
- 5. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents so surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.
- 6. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- E. Materials Preparation: Mix and prepare paint materials according to manufacturer's written instructions.
 - 1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 - 2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain paint before using.
 - 3. Use only thinners approved by paint manufacturer and only within recommended limits.

3.3 APPLICATION

A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.

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- 1. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
- 2. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
- 3. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
- 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- 5. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.
- 6. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
 - 1. Brush Application: Use brushes best suited for material applied and of appropriate size for the surface or item being coated.
 - a. Apply primers and first coats by brush unless manufacturer's written instructions permit using roller or mechanical applicators.
 - b. Brush out and work brush coats into surfaces in an even film.
 - c. Eliminate cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Neatly draw glass lines and color breaks.
 - 2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by manufacturer for the material and texture required.
 - 3. Spray Equipment: Use mechanical methods to apply coating if permitted by manufacturer's written instructions and governing regulations.
 - a. Use airless or air-assisted spray equipment with orifice size recommended by manufacturer for material and texture required.
 - b. Apply each coat to provide the equivalent hiding of brush-applied coats.
 - c. Do not double back with spray equipment building-up film thickness of two coats in one pass, unless recommended by manufacturer.
- C. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer. Finish coats shall be provided in the dry film thickness specified in the schedules located at the end of this Section.
- D. Block Fillers: Apply block fillers to concrete masonry and cast-in-place concrete at a rate to ensure complete coverage with all pores filled.
- E. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to substrates that are required to be painted or finished and that have not been prime coated by others.

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- 1. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn through or other defects due to insufficient sealing.
- F. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable
 - 1. Apply additional coats as required to provide a completely opaque and uniform finish surface.
 - 2. Deep and accent clear-base colors may require 1-2 more coats to achieve the proper hide
- G. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- H. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.
 - 1. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in Painting and Decorating Contractors of America (PDCA) Specification P1.

3.6 INTERIOR PAINT SCHEDULE

- A. General: Provide the designated paint systems for the various substrates, as indicated in the Room Finish Schedule.
- B. Concrete Masonry Units in Corridors:
 - 1. Semi-Gloss Acrylic Polymer: Three coats
 - a. Block Filler: Block Filler, for uncoated surfaces only.
 - b. First Coat: Semi-Gloss Acrylic Polymer (4-6 mils)
 - c. Second Coat: Semi-Gloss Acrylic Polymer (4-6 mils)
- C. Concrete Masonry Units in Areas Subject to Moisture:
 - 1. Gloss Epoxy Coating:
 - a. Primer: Modified Polyamine Epoxy Primer (0.7-1.5 mils).
 - b. First Coat: Satin Waterborne Acrylic Epoxy Finish (4-6 mils)
 - c. Second Coat: Satin Waterborne Acrylic Epoxy Finish (4-6 mils)
- D. Gypsum Board Walls and Partitions (Not Subject to Moisture and Food Preparation):
 - 1. Eggshell Enamel Finish: Three coats
 - a. Primer: Latex-based Interior Primer
 - b. First Coat: Latex-based Interior Eggshell (1.7 mils)
 - c. Second Coat: Latex-based Interior Eggshell (1.7 mils)
- E. Non-Galvanized Ferrous Metal:
 - 1. Acrylic: Three coats
 - a. Primer: Rust Inhibiting Primer (Primer is not required on shop primed items. Shop primer may require field touchup.)
 - b. First Coat: Semi-Gloss Acrylic Polymer (4-6 mils)
 - c. Second Coat: Semi-Gloss Acrylic Polymer (4-6 mils)
- F. Painted Woodwork: Provide the following painted finishes for new interior woodwork
 - 1. Acrylic: Three coats
 - a. Primer: Wood Primer (2-3 mils)
 - b. First Coat: Semi-Gloss Acrylic Polymer (4-6 mils)
 - c. Second Coat: Semi-Gloss Acrylic Polymer (4-6 mils)

END OF SECTION 09 91 23