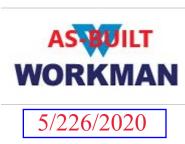
OUTPARCEL DEVELOPMENT RETAIL TRACT E 720/722 US 79 WEST TOWNWEST COMMONS



SITE PLAN

PROJECT DATA:

BUILDING CODE

PLUMBING CODE

ENERGY CODE

FIRE CODE

ALLOWABLE BUILDING AREA:

TRAVEL DISTANCE TO ANY EXIT

OCCUPANT LOADING:

REQUIRED PARKING

LOCATION: TOWNWEST COMMONS PLANNED UNIT DEVELOPMENT

EAST BUILDING, BUILDING A, 7,910 S.F.

WEST BUILDING, BUILDING B, 7,350 S.F.

MECHANICAL CODE IMC 2009

ELECTRICAL CODE NEC 2008

ACCESSIBILITY CODE TAS 2012

CONSTRUCTION TYPE: II-B, FULLY SPRINKLERED

ACTUAL BUILDING AREA: BUILDING A, 7,910 S.F.

T.B.D.

PARKING DATA: TOTAL PARKING COUNT = 105 SPACES

(ASSUMED).

SCOPE: OUTPARCEL DEVELOPMENT OF TWO LEASE BUILDING SHELLS.

IBC 2009

IFC 2009

IPC 2009

IEC 2015

37,500

BUILDING B, 7,350 S.F. TOTAL AREA, 15,260 S.F.

TOTAL BUILDING EXITING PROVIDED: BUILDING A, 4 EXITS @ 3'-0" = 12'-0"

TOTAL BUILDING AREA = 15,260 S.F.

TRAVEL DISTANCE: BUILDING IS FULLY SPRINKLERED W/ LESS THAN 250 FT. MAX.

OCCUPANCY T.B.D. ANTICIPATED OCCUPANCY OF MERCANTILE

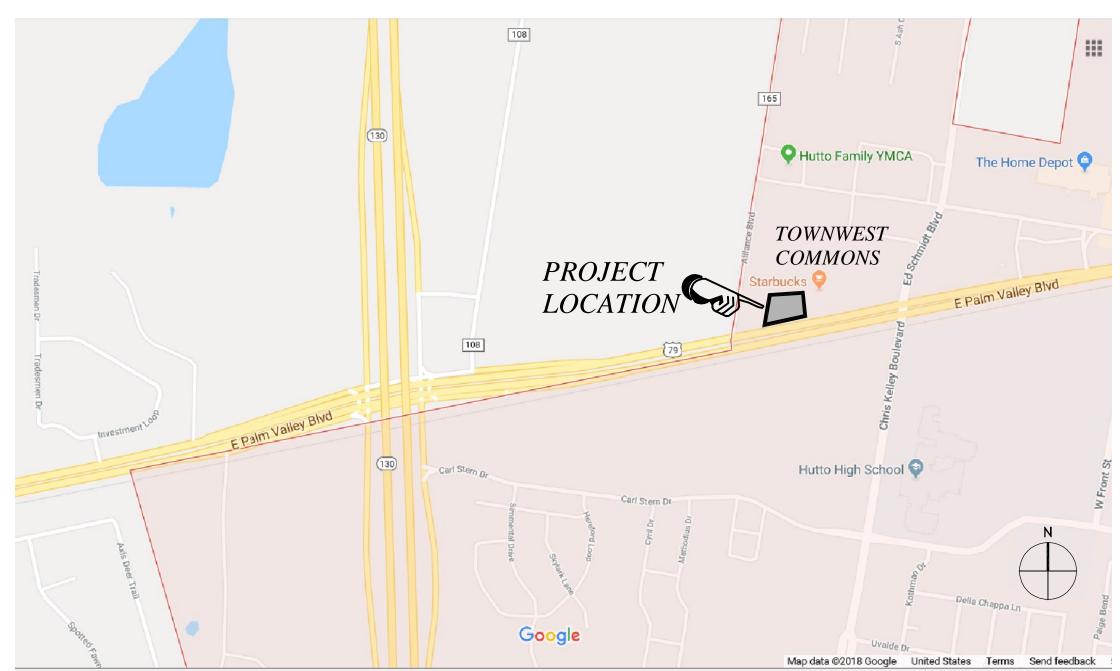
BUILDING B, 4 EXITS @ 3'-0" = 12'-0"

@ 1 SPACE/400 S.F. (MINIMUM) = 38 SPACES.

@ 1 SPACE/200 S.F. (MAXIMUM) = 76 SPACES

FUTURE MERCANTILE OR RESTAURANT OCCUPANCY, ASSUMED.

NOT TO SCALE



2

INDEX OF

BY THE CITY OF HUTTO. THE CONTRACTOR SHALL DETERMINE WHICH INSPECTIONS APPLY TO THIS PROJECT AND COORDINATE THE INSPECTION WITH THE CITY.

CITYOF

REQUEST Development Services/Building Division 210 US 79 East, Suite 103 Hutto, Texas 78634

| | | Please check type of ir | spection requ | sted: |
|--------------------------|-----------|-------------------------------------|----------------|---|
| | STATUS | | STATUS | Misc Inspections: S |
| ☐ Temp Power | | Permanent Meter | | ☐ Grease Trap |
| ☐ Layout/ Plumbing Rough | | ☐ Electrical Final | | ☐ Pool Layout |
| Sewer and Water | | ☐ Plumbing Final | | Pool Bond |
| ☐ Copper | | ☐ Mechanical Final | | Pool Final |
| Foundation | | ☐ Gas Final | | Hood |
| ☐ Plumbing Top Out | | Flatwork | | Gas Underground |
| Frame | | Right-of-Way (Driveway/Sidewalk) | | ☐ Water Softener |
| Electrical Rough | | ☐ Final Right-of-Way | | ☐ Irrigation/ Back-flow |
| Mechanical Rough | | Landscape | | Water Heater Replacement |
| Gas Rough | | ☐ Building Final | | HVAC Replacement |
| ☐ Insulation | | ☐ Certificate of Occupancy | | P-Trap |
| Wallboard | | Other: | | ☐ Fire/Fire Final |
| Status: P= | Pass / PP | = Partial Pass / F=Failed (re-inspe | ction required | d) $/NA = Not Applicable / C = Cancelled$ |

Note: All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the City of Hutto and Williamson County must rely upon the adequacy of the work of the Design Engineer.

| | | | FOR PER | | | | CONSTRUCT | /_/ | /_/ | // | |
|-----------------|--|------|---------|----------|------|--------|-----------|---------------|---------------|----------|--|
| • ISS | SUED | DATE | 9-14-18 | 11-14-18 | 5-14 | 7-2-19 | <u> </u> | $\frac{1}{2}$ | $\frac{1}{1}$ | | |
| A0.0 FL1.0 | COVER SHEET FIRE LANE PLAN | • | • | • | • | • | | / | | | |
| ~CIVII | ······································ | | | | | | | | | | |
| C1 OF 2 | TOPOGRAPHIC SURVEY | • | • | • | • | • | | | | | |
| C 2 OF 2 | | • | 0 | • | • | • | | | | | |
| C-1 C1-A | GRADING & DRAINAGE GRADING & DRAINAGE ALTERNATE BID ITEMS | • | 0 | 0 | 0 | • | | | | | |
| C1-B C-2 | DRAINAGE LAYOUT STORM SEWER LAYOUT | • | 0 | 0 | 0 | • | | | | | |
| C-2A | STORM SEWER LAYOUT ALTERNATE BID ITEMS ? | | | • | • | • | | | | | |
| C-2B C-3 | STORM SEWER CALCULATION TABLE WATER & SANITARY LAYOUT | • | 0 | 0 | • | • | | | | | |
| C-4 | PAVING JOINT LAYOUT | • | • | • | • | • | | | | | |
| C-4A C-5 | PAVING JOINT LAYOUT ALTERNATE BID ITEMS SWPPP LAYOUT | • | 0 | 0 | 0 | • | | | | | |
| C-6 | SWPPP NOTES & DETAILS | • | • | • | 0 | • | | | | | |
| C-7 C-8 | GENERAL NOTES & DETAILS CITY OF HUTTO NOTES & DETAILS | | | 0 | • | 0 | | | | \vdash | |
| | DSCAPING & IRRIGATION: | | | | | | | | | | |
| _1.1 | PLANTING PLAN | • | • | • | • | • | | | | | |
| _1.2 | LANDSCAPE DETAILS | • | • | • | • | • | | | | | |
| _1.3 _2.1 | ROCKSCAPE PLAN IRRIGATION PLAN | • | • | 0 | 0 | • | | | | | |
| 2.2 | IRRIGATION DETAILS | • | • | • | • | • | | | | | |
| ARC | HITECTURAL: | | | | | | | | | | |
| AS1.0 | SITE PLAN | • | • | • | • | • | | | | | |
| AS1.1 A1.0 | SITE DETAILS BUILDING PLAN, BUILDING A | • | 0 | 0 | 0 | • | | | | | |
| A1.1 | BUILDING PLAN, BUILDING B | • | • | • | • | • | | | | | |
| A1.2 A1.3 | SOFFIT PLANS, BUILDINGS A & B ROOF PLAN, BUILDING A | • | 0 | • | • | • | | | | | |
| A1.4 A1.5 | ROOF PLAN, BUILDING B | • | 0 | • | • | • | | | | | |
| A1.5 A2.0 | SIDEWALK PLAN) EXTERIOR ELEVATIONS & FINISH SCHEDULE | • | 0 | 0 | 0 | • | | | | | |
| A2.1 A3.0 | EXTERIOR ELEVATIONS WALL SECTIONS | • | 0 | 0 | • | • | | | | | |
| A3.1 | WALL SECTIONS | • | 0 | 0 | • | • | | | | | |
| A3.2 A3.4 | WALL SECTIONS WALL SECTIONS | • | 0 | 0 | 0 | 0 | | | | | |
| A3.5 | WALL SECTIONS | • | 0 | • | • | • | | | | | |
| A4.0 A4.1 | BUILDING DETAILS BUILDING DETAILS | • | 0 | 0 | • | • | | | | | |
| A4.2 | BUILDING DETAILS | | | | | | | | | | |
| | UCTURAL: | | | | | | | | | | |
| S0.0 S0.1 | GENERAL NOTES GENERAL NOTES | • | • | • | 0 | • | | | | | |
| S1.1 S1.2 | BUILDING A FOUNDATION PLAN BUILDING B FOUNDATION PLAN | • | 0 | • | 0 | • | | | | | |
| S2.1 | BUILDING A ROOF FRAMING PLAN | • | • | 0 | • | • | | | | | |
| S2.2 S2.3 | BUILDING B ROOF FRAMING PLAN HIGH ROOF FRAMING PLAN | • | 0 | 0 | 0 | • | | | | \vdash | |
| S2.4 | CANOPY FRAMING PLAN | • | • | • | • | • | | | | | |
| S3.1 S3.2 | BUILDING A PANEL ELEVATIONS BUILDING A PANEL ELEVATIONS | • | 0 | 0 | 0 | • | | | | \dashv | |
| S3.3 | BUILDING B PANEL ELEVATIONS | • | • | 0 | 0 | 0 | | | | | |
| S3.4 S3.5 | BUILDING B PANEL ELEVATIONS PANEL DETAILS | • | 0 | 0 | 0 | • | | | | | |
| S4.1 S4.2 | FOUNDATION DETAILS | 0 | 0 | 0 | 0 | 0 | | | | | |
| S5.1 | FOUNDATION DETAILS FRAMING DETAILS | • | 0 | 0 | 0 | • | | | | | |
| S5.2 S5.3 | FRAMING DETAILS FRAMING DETAILS | • | 0 | 0 | 0 | • | | | | | |
| | | | | | - | | | | | | |
| MEP | | | | | | | | | | | |
| EP0.1 EP 1.0 | PHOTOMETRIC SITE PLAN ELECTRICAL/PLUMBING SITE PLAN | • | 0 | 0 | 0 | • | | | | \dashv | |
| =1.0 | ELECTRICAL FLOOR PLAN BLDG A | • | 0 | 0 | • | • | | | | \dashv | |
| =1.1 =2.0 | ELECTRICAL FLOOR PLAN BLDG B ELECTRICAL ONE LINE DIAGRAM-BLDG A & B | • | • | • | • | • | | | | | |
| E2.1 E3.0 | ELECTRICAL PANEL SCHEDULES & DETAILS | • | • | + - | 0 | 0 | | | | | |
| P1.0 | ELECTRICAL SPECIFICATIONS, DETAILS & LEGENDS PLUMBING FLOOR PLAN, BLDG A | • | • | 0 | 0 | • | | | | | |
| P1.1 P2.0 | PLUMBING FLOOR PLAN, BLDG B PLUMBING SCHEDULE, NOTES & LEGEND | • | 0 | 0 | 0 | 0 | | | | | |
| | ELUMBING SCHEDULE NOTES & LEGENT) | • | | 4 | | | 1 | | | | |

OWNER

Date issued/revised

NEWQUEST PROPERTIES 8827 W. SAM HOUSTON PARKWAY N. SUITE #200 HOUSTON, TEXAS 77040 (281) 477-4357 - PHONE

14 SEP 2018 FOR PERMIT & REVIEW

14 MAY 2019 BLDG PERMÍT RÈSPONS 2 JUL 2019 FOR CONSTRUCTION

14 NOV 2018 FOR PRICING / 15 MAR 2019 FOR PERMIT/

CIVIL ENGINEER

(CONSULTANT TO OWNER) TEXAS ENGINEERING & MAPPING CO. 12718 CENTURY DR. STAFFORD, TX 77477 PHONE: (281) 491-2525 FAX: (281) 491-2535 SCOTTY SCHMIDT SSCHMIDT@TEAM-CIVIL.COM

LANDSCAPE ARCHITECT

CBM LANDSCAPE 18135 FM 362 NAVASOTA, TX 77868 PHONE: (832) 428-1209 CHARLES BRIDGES CBRIDGES@CMBLANDARCH.COM

ARCHITECT

OSBORN & VANE ARCHITECTS, INC.

2000 BERING DRIVE, SUITE #410 HOUSTON, TEXAS 77057 PHONE: (713) 781-5262 FAX: (713) 781-5347 JASON CHAPMAN, AIA JCHAPMAN@OVARC.COM

STRUCTURAL

CJG ENGINEERS - HOUSTON LLC 3200 WILCREST DRIVE, SUITE 305 HOUSTON, TX 77042 PHONE: (713) 780-3345 BRITT GARDNER BGARDNER@CJGENGINEERS.COM

MEP ENGINEER

SALAS O'BRIEN LLC 10930 W. SAM HOUSTON PARKWAY N. HOUSTON, TEXAS 77064 (281) 664-1900 PHONE (281) 664-1912 - FAX TEXAS **REGISTERED ENGINEERING FIRM F-4111**

OSBORN & VANE ARCHITECTS

2000 Bering Drive, Suite 410 Houston, Texas 77057 713 781 5262 Fax 713 781 5347 Members American Institute of Architects

SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 7 WEST TOWNWEST COMMONS HUTTO, TX 78634

18064 Drawn Checked

INFORMATION SHEET





NOTE: THE REVIEW AND APPROVAL IS FOR THE SHELL ONLY AND THAT NO TENANT STRUCTURE, NOR MEP HAVE BEEN REVIEWED OR APPROVED AS PART OF THIS SUBMITTAL. ALL TENANT FITOUTS SHALL BE COMPLETED UNDER SEPARATE PERMIT.

INSPECTION

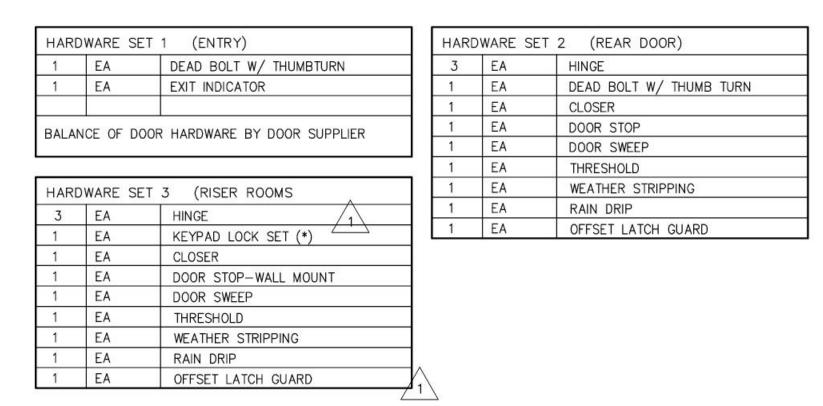
512-846-2640 Fax 512-759-5962

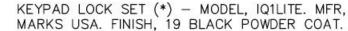
www.huttotx.gov

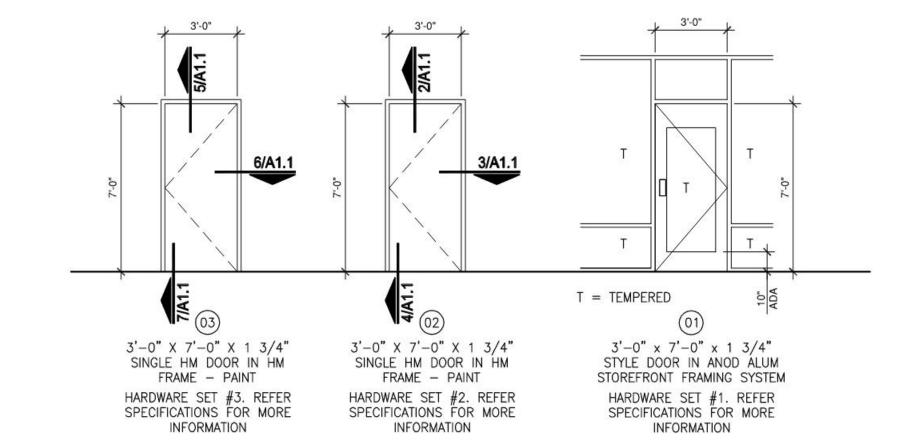
BELOW IS THE LIST OF SPECIAL INSPECTIONS AS REQUIRED

| | | Fax Inspections Email Inspections | | | | | | | | | | | | | | |
|--------------------------|--------|-----------------------------------|--------------------|-----------------|-------------------------|--------|--|--|--|--|--|--|--|--|--|--|
| | Ple | ease note: All Inspection reques | sts must | be received in | writing to Inspections. | | | | | | | | | | | |
| Address: | | | Date Needed: | | | | | | | | | | | | | |
| Permit# | | | Subdivision: | | | | | | | | | | | | | |
| Today's Date: | | | Requestor's Phone: | | | | | | | | | | | | | |
| Company/Builder: | | | Requestor's Fax: | | | | | | | | | | | | | |
| Requestor's Name: | | | Email Address: | | | | | | | | | | | | | |
| | | Please check ty | pe of ins | spection reques | sted: | | | | | | | | | | | |
| | STATUS | | | STATUS | Misc Inspections: | STATUS | | | | | | | | | | |
| ☐ Temp Power | | Permanent Meter | | | Grease Trap | | | | | | | | | | | |
| ☐ Layout/ Plumbing Rough | | ☐ Electrical Final | | | Pool Layout | | | | | | | | | | | |

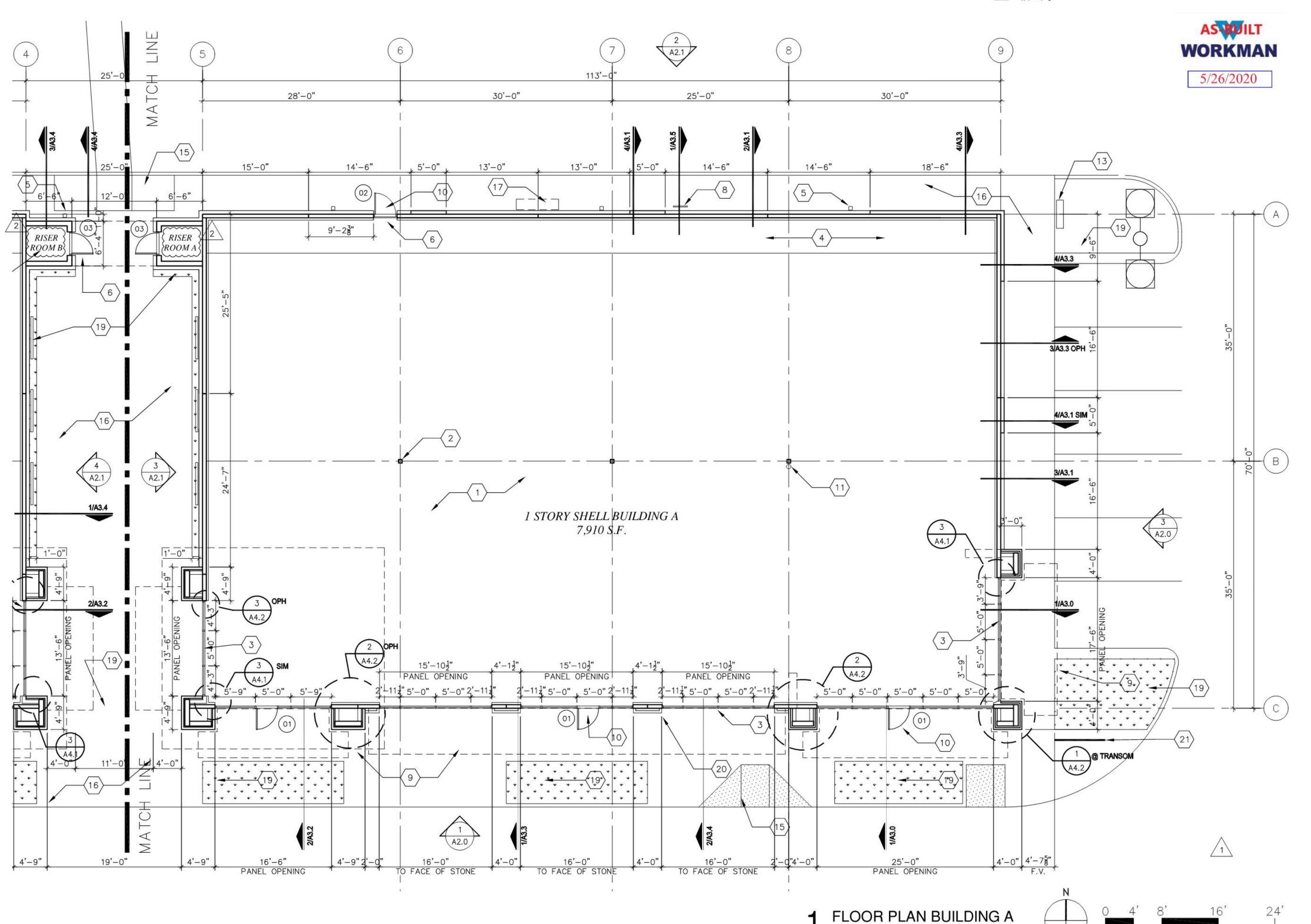
| | Grease Trap |
|---|---|
| ☐ Electrical Final | ☐ Pool Layout |
| ☐ Plumbing Final | ☐ Pool Bond |
| ☐ Mechanical Final | Pool Final |
| ☐ Gas Final | Hood |
| ☐ Flatwork | Gas Underground |
| Right-of-Way (Driveway/Sidewalk) | ☐ Water Softener |
| ☐ Final Right-of-Way | ☐ Irrigation/ Back-flow |
| Landscape | ☐Water Heater Replacement |
| ☐ Building Final | ☐ HVAC Replacement |
| ☐ Certificate of Occupancy | P-Trap |
| Other: | ☐ Fire/Fire Final |
| = Partial Pass / F=Failed (re-inspection requ | (ired) / NA = Not Applicable / C = Cancelled |
| | ☐ Plumbing Final ☐ Mechanical Final ☐ Gas Final ☐ Flatwork ☐ Right-of-Way (Driveway/Sidewalk) ☐ Final Right-of-Way ☐ Landscape ☐ Building Final ☐ Certificate of Occupancy ☐ Other: |







2 DOOR & HARDWARE SCHEDULE



Date issued/revised

14 SEP 2018 FOR PERMIT & REVIEW 14 NOV 2018 FOR PRICING / 15 MAR 2019 FOR PERMIT/1 14 MAY 2019 BLDG PERMIT RESPONSE /2 2 JUL 2019 FOR CONSTRUCTION

NOTES TO SHEET A1.0 & A1.1:

- REFER CIVIL DWGS FOR F.F. ELEVATION. STEEL COLUMN. RE: STRUC DWGS.
- SCHEDULED ALUMINUM & GLASS STOREFRONT. RE: EXTERIOR FINISH SCHEDULE
- 5 FOOT SLAB LEAVE OUT. RE: STRUC DWGS. 6"X6" PREFINISHED MTL DOWNSPOUT. TIE INTO STORM LINE. RE: CIVIL DWG. COORDINATE FINAL LOCATIONS W/ ELECTRICAL SERVICE AND BACK DOORS. OWNER TO
- APPROVE LOCATIONS PRIOR TO CONSTRUCTION. HOLLOW METAL DOOR AND FRAME. REFER
- SPECIFICATION FOR ALTERNATE. FIRE RISER ROOM. RE: PLUMBING DRAWINGS. ROOF ACCESS LADDER. RE: SHEET A3.5. VERIFY
- LOCATION W/OWNER.
- LINE OF AWNING ABOVE (DASHED). 10. AT ALL DOORS, LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE DOOR. DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7 INCHES. WHEN A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE, DOORS IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF ITS REQUIRED WIDTH, LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL OF NOT LESS THAN 44 INCHES. CONCRETE LANDING LEVEL OUTSIDE OF ENTRY TO BE FLUSH W/ FINISH FLOOR. HARDWARE NOTES: HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. 3'-0" X 7'-0" ALUMINUM AND GLASS FRAMED DOOR. EXACT LOCATION AND QUANTITY OF ALL DOORS AS DIRECTED
- . CLASS ABC FIRE EXTINGUISHERS. NUMBER & LOCATION PER FIRE DEPARTMENT REQUIREMENTS.

POSTAL SERVICE AND LANDLORD PRIOR TO PURCHASE.

- NOT USED. 3. CONTRACTOR SHALL FURNISH AND INSTALL A MULTI-TENANT MAILBOX W/ KEYS (8 UNIT + PARCEL). REFER SPECIFICATIONS FOR ADDITIONAL INFORMATION. GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION LOCATION AND SIZE WITH LOCAL US
- ACCESSIBLE PARKING SIGN. RE: 4/AS1.0. 15. CURB RAMP. RE: 13&14/AS1.1.
- 16. CONC SIDEWALK. REFER SHEET AS1.1 FOR DETAILS.
- 7. ELECTRICAL SERVICE. RE: ELECTRICAL DRAWINGS. VERIFY SERVICE LOCATIONS W/ OWNER. 18. NOT USED.
- 19. LANDSCAPE AREA & TRELLIS. REFER LANDSCAPE AND IRRIGATION DRAWINGS.
- 20. KNOX BOX PER FIRE MARSHALL APPROVED LOCATION. (2) AS DIRECTED BY FIRE MARSHALL. 21. BIKE RACK. REFER SHEET AS1.0.

ADDITIONAL INFORMATION.

DENOTES DOOR TYPE. REFER THIS SHEET FOR

GENERAL NOTES:

- REFER CIVIL DRAWINGS FOR DIMENSIONAL CONTROL
- REFER SHEET A1.2 FOR SOFFIT PLAN.
- REFER SHEET A1.3 & A1.4 FOR ROOF PLAN. REFER SHEET A1.5 FOR SIDEWALK PLAN. PRIOR TO CONSTRUCTION, COORDINATE FINAL NUMBER AND LOCATION OF STOREFRONT ENTRY
- DOORS, REAR DOORS, ROOF LADDER, ELECTRICAL SERVICE AND DOWNSPOUTS W/ OWNER. GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLETE INSTALLATION OF CANOPIES AND AWNINGS, INCLUDING SUPPORT, BLOCKING AND
- ALL EXTERIOR WALLS OF LEASE SPACE SHALL HAVE 3 §" 25 GA MTL STUD FRAMING @ 24" O.C. W/ R-15 BATT INSULATION FULL HEIGHT.

OSBORN & VANE ARCHITECTS

2000 Bering Drive, Suite 410 Houston, Texas 77057 713 781 5262 Fax 713 781 5347 Members American Institute of Architects

SHELL BUILDING & SITE WORK DEVELOPMENT

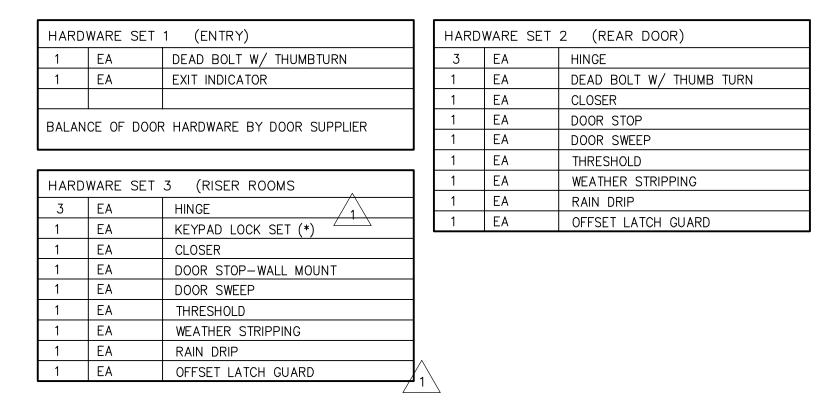
720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No.

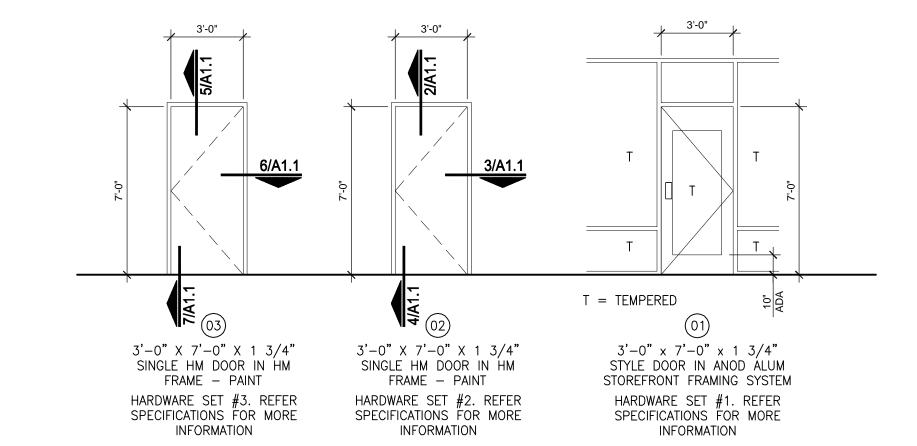
Drawn Checked

FLOOR PLAN BUILDING A

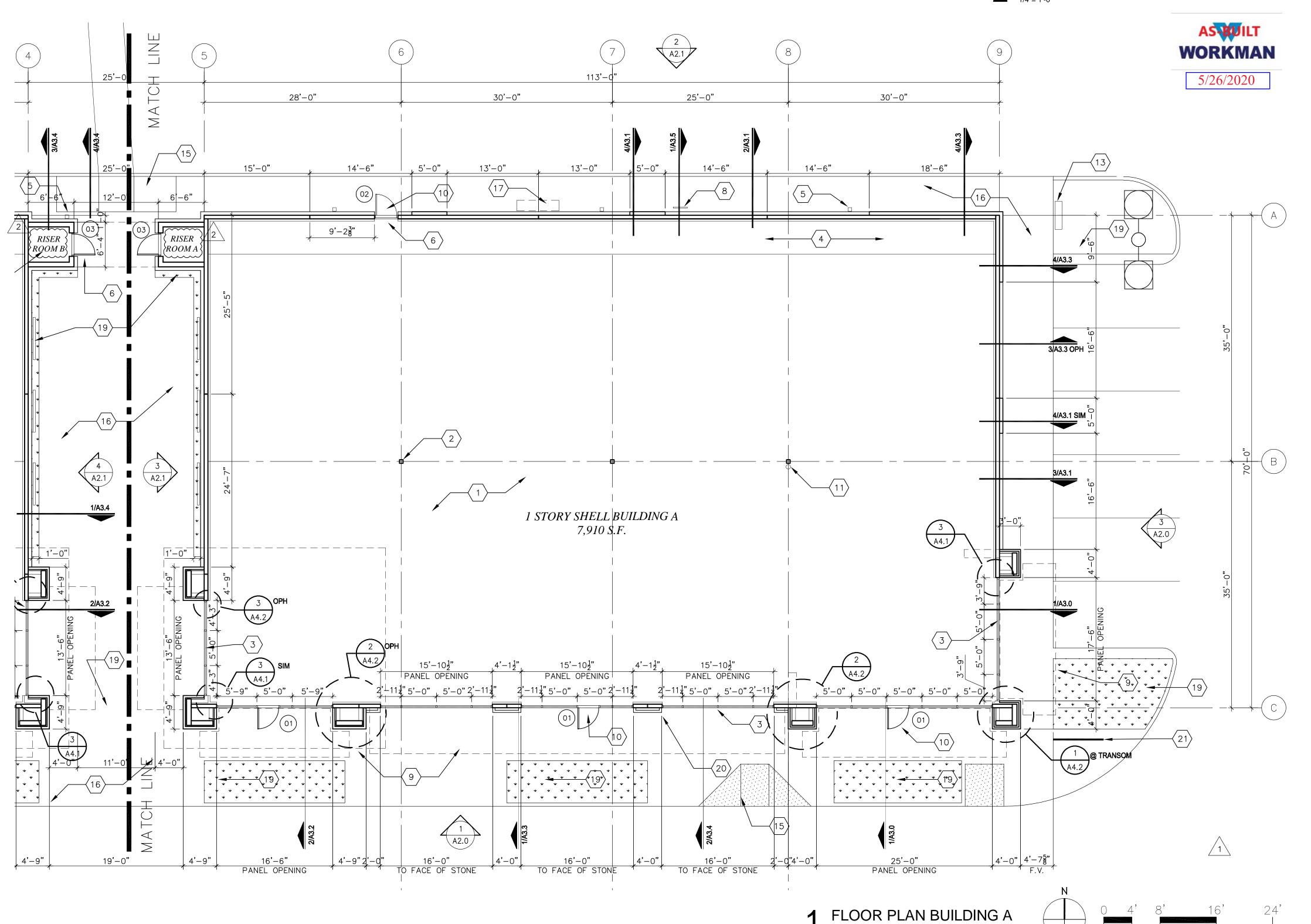




KEYPAD LOCK SET (*) - MODEL, IQ1LITE. MFR, MARKS USA. FINISH, 19 BLACK POWDER COAT.



2 DOOR & HARDWARE SCHEDULE



14 SEP 2018 FOR PERMIT & REVIEW 14 NOV 2018 FOR PRICING / 15 MAR 2019 FOR PERMIT/ 1 14 MAY 2019 BLDG PERMIT RESPONSE /2 2 JUL 2019 FOR CONSTRUCTION

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- 5 FOOT SLAB LEAVE OUT. RE: STRUC DWGS. 6"X6" PREFINISHED MTL DOWNSPOUT. TIE INTO STORM LINE. RE: CIVIL DWG. COORDINATE FINAL LOCATIONS W/ ELECTRICAL SERVICE AND BACK DOORS. OWNER TO
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- SPECIFICATION FOR ALTERNATE. FIRE RISER ROOM. RE: PLUMBING DRAWINGS. ROOF ACCESS LADDER. RE: SHEET A3.5. VERIFY
- LOCATION W/OWNER.
- LINE OF AWNING ABOVE (DASHED). O. AT ALL DOORS, LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE DOOR. DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7 INCHES. WHEN A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE, DOORS IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF ITS REQUIRED WIDTH, LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL OF NOT LESS THAN 44 INCHES. CONCRETE LANDING LEVEL OUTSIDE OF ENTRY TO BE FLUSH W/ FINISH FLOOR. HARDWARE NOTES: HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR
- CLASS ABC FIRE EXTINGUISHERS. NUMBER & LOCATION PER FIRE DEPARTMENT REQUIREMENTS.

ALUMINUM AND GLASS FRAMED DOOR. EXACT LOCATION AND QUANTITY OF ALL DOORS AS DIRECTED

TWISTING OF THE WRIST TO OPERATE. 3'-0" X 7'-0"

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- 4. ACCESSIBLE PARKING SIGN. RE: 4/AS1.0. 15. CURB RAMP. RE: 13&14/AS1.1.

POSTAL SERVICE AND LANDLORD PRIOR TO PURCHASE.

- 16. CONC SIDEWALK. REFER SHEET AS1.1 FOR DETAILS. 7. ELECTRICAL SERVICE. RE: ELECTRICAL DRAWNGS. VERIFY SERVICE LOCATIONS W/ OWNER.
- 18. NOT USED. 19. LANDSCAPE AREA & TRELLIS. REFER LANDSCAPE AND IRRIGATION DRAWNGS.
- 20. KNOX BOX PER FIRE MARSHALL APPROVED LOCATION. (2) AS DIRECTED BY FIRE MARSHALL. 21. BIKE RACK. REFER SHEET AS1.0.
- DENOTES DOOR TYPE. REFER THIS SHEET FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

- REFER CIVIL DRAWINGS FOR DIMENSIONAL CONTROL
- REFER SHEET A1.2 FOR SOFFIT PLAN.
- REFER SHEET A1.3 & A1.4 FOR ROOF PLAN. REFER SHEET A1.5 FOR SIDEWALK PLAN. PRIOR TO CONSTRUCTION, COORDINATE FINAL
- NUMBER AND LOCATION OF STOREFRONT ENTRY DOORS, REAR DOORS, ROOF LADDER, ELECTRICAL SERVICE AND DOWNSPOUTS W/ OWNER. GENERAL CONTRACTOR IS RESPONSIBLE FOR COMPLETE INSTALLATION OF CANOPIES AND AWNINGS, INCLUDING SUPPORT, BLOCKING AND
- ALL EXTERIOR WALLS OF LEASE SPACE SHALL HAVE 3 §" 25 GA MTL STUD FRAMING @ 24" O.C. W/ R-15 BATT INSULATION FULL HEIGHT.

OSBORN & VANE ARCHITECTS

2000 Bering Drive, Suite 410 Houston, Texas 77057 713 781 5262 Fax 713 781 5347 Members American Institute of Architects

SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

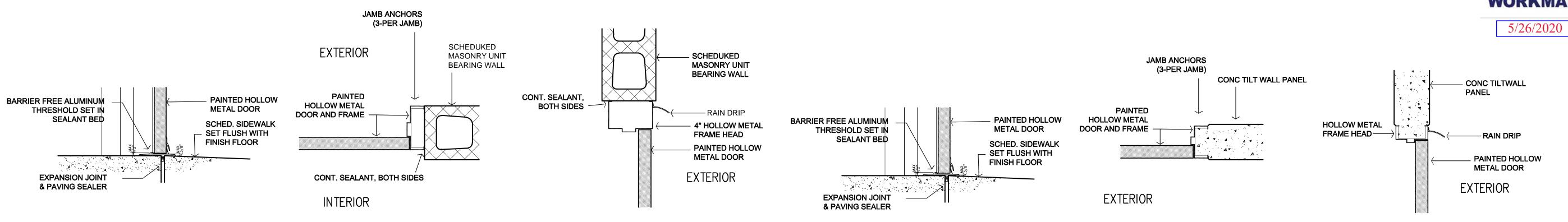
Project No.

Drawn Checked

FLOOR PLAN BUILDING A







7 DOOR DETAIL

6 DOOR DETAIL
1 1/2"= 1'-0"

5 DOOR DETAIL 1/2"= 1'-0"

4 DOOR DETAIL
1 1/2"= 1'-0"

3 DOOR DETAIL
1 1/2"= 1'-0"

13'-6"

35'-0"

RISER

ROOMB

7 DOOR DETAIL 1 1/2"= 1'-0"

RISER

|| ROOM A

A2.1

105'-0" 35'-0" 35'-0"

 $5'-4\frac{1}{4}$ " 4/A3.3

3/A3.3

4 A2.0 3/A3.0 1 STORY SHELL BUILDING B 7,350 S.F.

PANEL OPENING

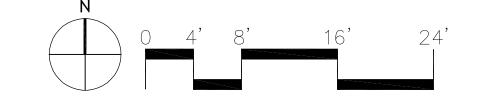
PANEL OPENING

PANEL OPENING

 \setminus A2.0 /

1 FLOOR PLAN BUILDING B

v v v v v v v v



19'-0"

Date issued/revised

14 SEP 2019 FOR PERMIT & REVIEW 14 NOV 2019 FOR PRICING 15 MAR 2019 FOR PERMIT 14 MAY 2019 BLDG PERMIT RESPONSE / 2 JUL 2019 FOR CONSTRUCTION

NOTES TO SHEET A1.0 & A1.1:

- REFER CIVIL DWGS FOR F.F. ELEVATION. STEEL COLUMN. RE: STRUC DWGS.
- SCHEDULED ALUMINUM & GLASS STOREFRONT. RE: EXTERIOR FINISH SCHEDULE
- 5 FOOT SLAB LEAVE OUT. RE: STRUC DWGS. 6"X6" PREFINISHED MTL DOWNSPOUT. TIE INTO STORM LINE. RE: CIVIL DWG. COORDINATE FINAL LOCATIONS W/ ELECTRICAL SERVICE AND BACK DOORS. OWNER TO
- APPROVE LOCATIONS PRIOR TO CONSTRUCTION. HOLLOW METAL DOOR AND FRAME. REFER
- SPECIFICATION FOR ALTERNATE. FIRE RISER ROOM. RE: PLUMBING DRAWNGS. ROOF ACCESS LADDER. RE: SHEET A3.5. VERIFY
- LOCATION W/OWNER.
- LINE OF AWNING ABOVE (DASHED). O. AT ALL DOORS, LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE DOOR. DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7 INCHES. WHEN A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE, DOORS IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF ITS REQUIRED WIDTH, LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL OF NOT LESS THAN 44 INCHES. CONCRETE LANDING LEVEL OUTSIDE OF ENTRY TO BE FLUSH W/ FINISH FLOOR. HARDWARE NOTES: HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. 3'-0" X 7'-0" ALUMINUM AND GLASS FRAMED DOOR. EXACT LOCATION AND QUANTITY OF ALL DOORS AS DIRECTED
- CLASS ABC FIRE EXTINGUISHERS. NUMBER & LOCATION PER FIRE DEPARTMENT REQUIREMENTS. NOT USED.
- CONTRACTOR SHALL FURNISH AND INSTALL A MULTI-TENANT MAILBOX W/ KEYS (8 UNIT + PARCEL). REFER SPECIFICATIONS FOR ADDITIONAL INFORMATION. GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION LOCATION AND SIZE WITH LOCAL US POSTAL SERVICE AND LANDLORD PRIOR TO PURCHASE.
- ACCESSIBLE PARKING SIGN. RE: 4/AS1.0. 15. CURB RAMP. RE: 13&14/AS1.1.
- 16. CONC SIDEWALK. REFER SHEET AS1.1 FOR DETAILS. 7. ELECTRICAL SERVICE. RE: ELECTRICAL DRAWNGS.
- VERIFY SERVICE LOCATIONS W/ OWNER. 18. NOT USED.
- 19. LANDSCAPE AREA & TRELLIS. REFER LANDSCAPE AND IRRIGATION DRAWNGS. 20. KNOX BOX PER FIRE MARSHALL APPROVED LOCATION.
- (2) AS DIRECTED BY FIRE MARSHALL. 21. BIKE RACK. REFER SHEET AS1.0.

DENOTES DOOR TYPE. REFER THIS SHEET FOR / ADDITIONAL INFORMATION.

GENERAL NOTES:

- REFER CIVIL DRAWINGS FOR DIMENSIONAL CONTROL
- REFER SHEET A1.2 FOR SOFFIT PLAN.
- REFER SHEET A1.3 & A1.4 FOR ROOF PLAN. REFER SHEET A1.5 FOR SIDEWALK PLAN. PRIOR TO CONSTRUCTION, COORDINATE FINAL

BATT INSULATION FULL HEIGHT.

- NUMBER AND LOCATION OF STOREFRONT ENTRY DOORS, REAR DOORS, ROOF LADDER, ELECTRICAL SERVICE AND DOWNSPOUTS W/ OWNER. GENERAL CONTRACTOR IS RESPONSIBLE FOR
- COMPLETE INSTALLATION OF CANOPIES AND AWNINGS, INCLUDING SUPPORT, BLOCKING AND ALL EXTERIOR WALLS OF LEASE SPACE SHALL HAVE 3 §" 25 GA MTL STUD FRAMING @ 24" O.C. W/ R-15

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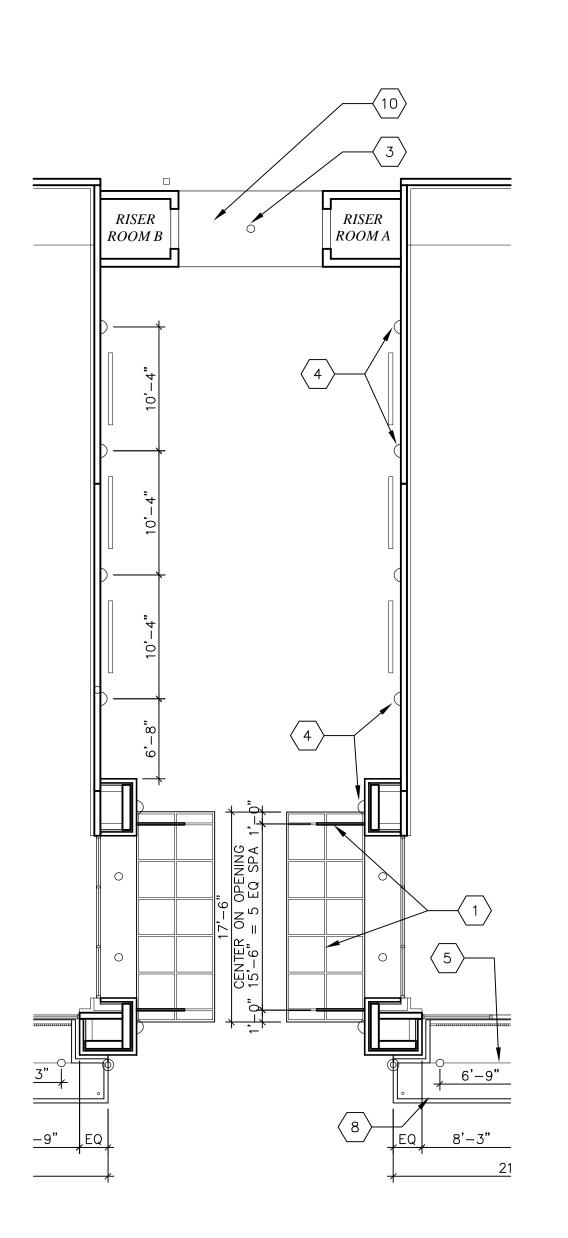
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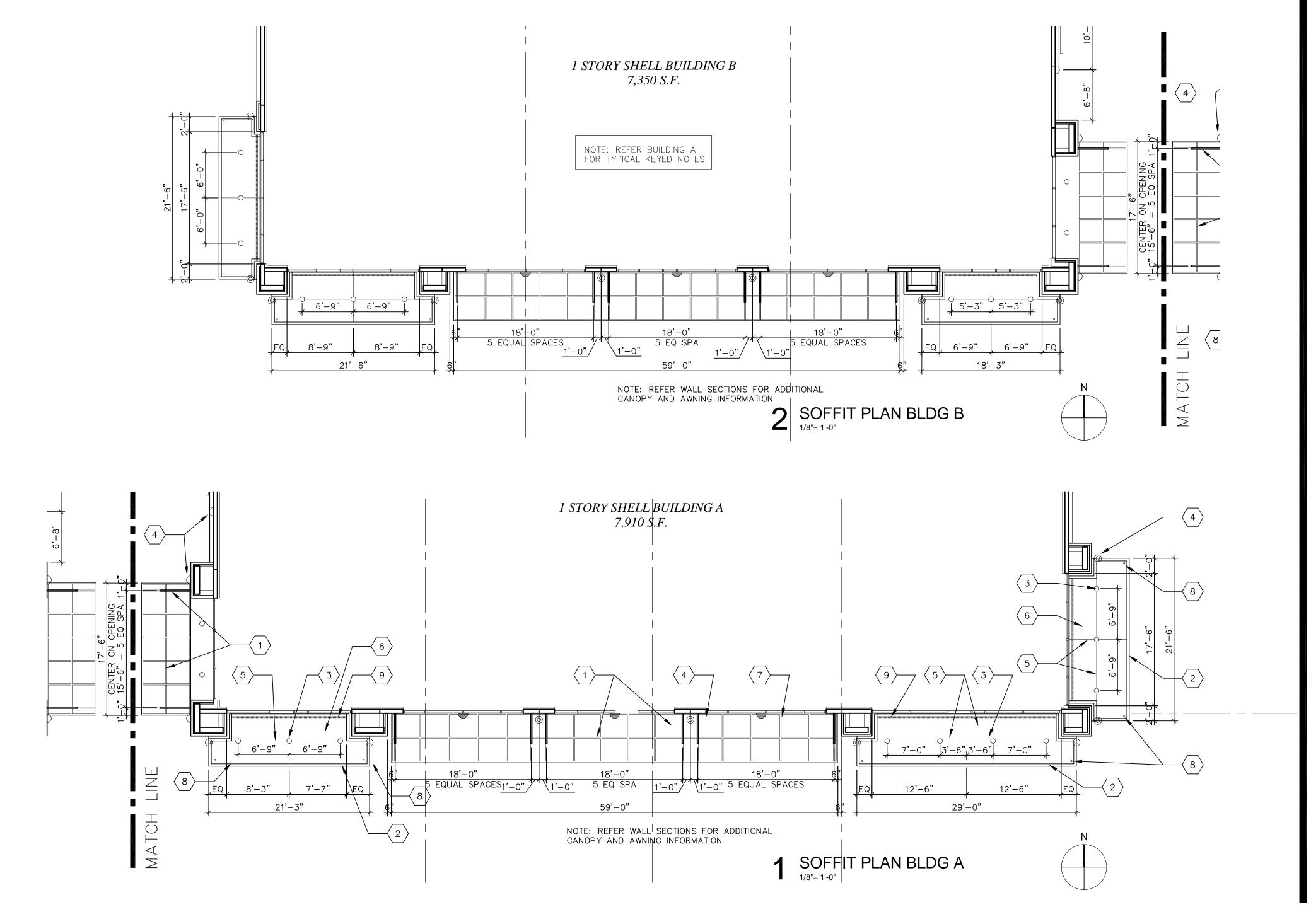
FLOOR PLAN BUILDING B











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NOTES TO SHEET

- PREFINISHED METAL AWNING ON PAINTED STEEL TUBE FRAME. PAINT UNDERSIDE OF ROOF PANELS TO MATCH STEEL FRAME. NO
- EXPOSED FASTENERS. STEEL CANOPY W/ ANODIZED ALUMINUM
- RECESSED DOWN LIGHT, RE: ELECT. DRAWINGS. COORDINATE INSTALLATION WITH CANOPY
- FRAMING PRIOR TO CONSTRUCTION. WALL MOUNTED SCONCE, RE: ELECT.
- DRAWINGS. #15 ZINC DOUBLE VEE CONTROL JOINT IN
- Ë.I.F.S. SOFFIT. 6. E.I.F.S. BASE AND FINISH COAT APPLIED
- DIRECTLY TO 1/2" DENSGLAS SOFFIT.
- WALL MOUNTED LIGHT FIXTURE, RE:
- ELECTRICAL DRAWINGS. 3"Ø DOWNSPOUT IN FORMED GUTTER. DRAIN THRU CANOPY.



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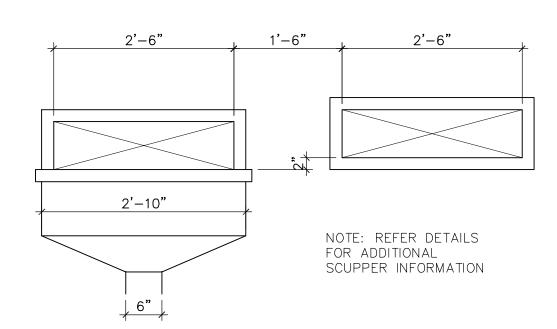
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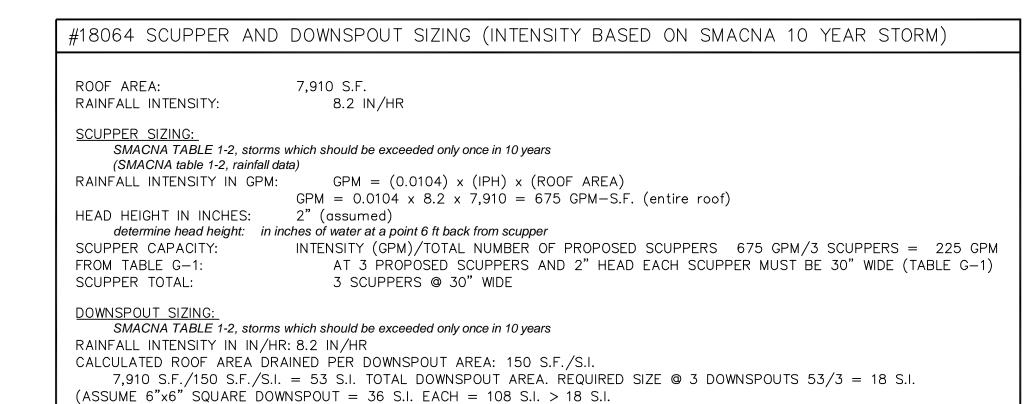
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SOFFIT PLANS

A1.2

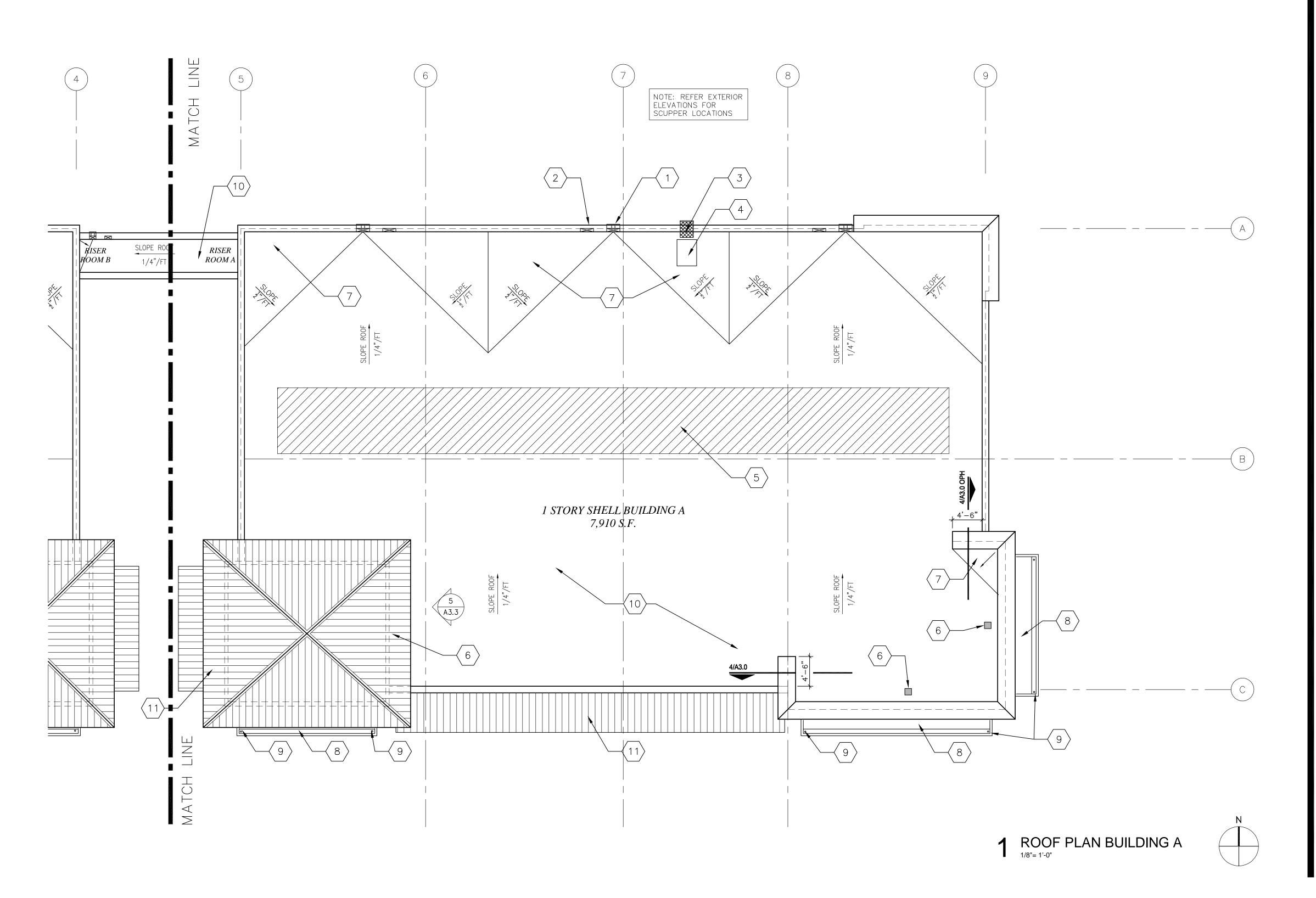


3 TYPICAL SCUPPER ELEVATION



NOTE: EMERGENCY OVERFLOW SYSTEM TO EQUAL REGULAR SYSTEM @ +2" ABOVE REGULAR SCUPPER

2 SCUPPER SIZING BUILDING A

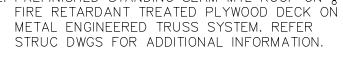


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KEY NOTES TO SHEET:

- ROOF SCUPPER AND DOWNSPOUTS.
- 2. OVERFLOW SCUPPER TO MATCH REGULAR
- 3. ROOF LADDER AND PLATFORM. RE: 3&4/A3.4. 4. 30" SQUARE min. FLEXIBLE PLASTIC WALK PAD (5/16" thk. min.)
- 5. RTU ZONE. REFER STRUC DWGS FOR ADDITIONAL
- INFORMATION. PORTALS PLUS 5 HOLE PIPE PORTAL FLASHING
- SYSTEM, #29430. MTL ROOF OF RISER ROOM BELOW.
- . CANOPY BELOW W/ TPO ROOFING. PROVIDE ALL SUPPORT, BLOCKING AND FLASHING FOR A COMPLETE INSTALLATION.
- 9. 3"ø DOWNSPOUT IN FORMED GUTTER. DRAIN THRU CANOPY.
- 10. SCHEDULED ROOF ON RIGID INSULATION ON METAL DECK.
- 11. AWNING W/ STANDING SEAM ROOF ON PAINTED
- METAL FRAME. 12. PREFINISHED STANDING SEAM MTL ROOF ON §"





ROOFING GENERAL NOTES:

- A. MAIN ROOF SHALL BE MODIFIED BITUMINOUS CAP SHEET SHALL MEET THE FOLLOWING COOL
- ROOF REQUIREMENTS. A.1. 3 YEAR AGED SOLAR REFLECTANCE >= 0.55 AS TESTED PER ONE OF THE FOLLOWING: ASTM C1549, ASTM E903, ASTM E1175, or ASTM E1918.
- A.2. 3 YEAR AGED THERMAL EMITTANCE >=0.75 AS TESTED PER ONE OF THE FOLLOWING: ASTM C835, ASTM C1371, or ASTM E408 REFER SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. ROOF INSULATION SHALL BE A MINIMUM OF
- HORIZONTAL CANOPIES ARE 60 MIL TPO ROOFING

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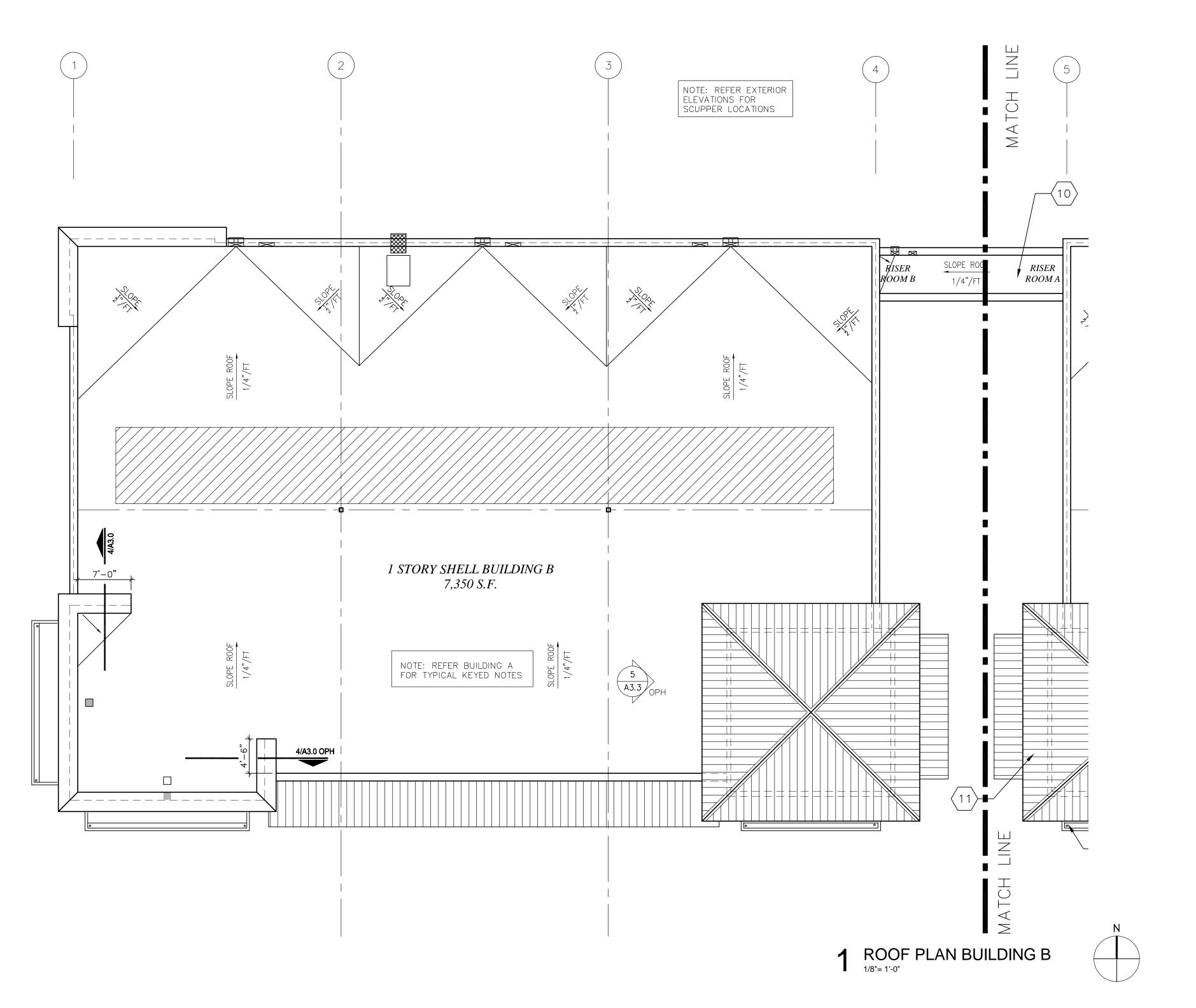
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ROOF PLAN BUILDING A



#18064 SCUPPER AND DOWNSPOUT SIZING (INTENSITY BASED ON SMACNA 10 YEAR STORM) ROOF AREA: 7,350 S.F. RAINFALL INTENSITY: 8.2 IN/HR SMACNA TABLE 1-2, storms which should be exceeded only once in 10 years (SMACNA table 1-2, rainfall data) RAINFALL INTENSITY IN GPM: $GPM = (0.0104) \times (IPH) \times (ROOF AREA)$ $GPM = 0.0104 \times 8.2 \times 7,350 = 627 GPM-S.F.$ (entire roof) HEAD HEIGHT IN INCHES: 2" (assumed) determine head height: in inches of water at a point 6 ft back from scupper SCUPPER CAPACITY: INTENSITY (GPM)/TOTAL NUMBER OF PROPOSED SCUPPERS 627 GPM/3 SCUPPERS = 209 GPM FROM TABLE G-1: AT 3 PROPOSED SCUPPERS AND 2" HEAD EACH SCUPPER MUST BE 30" WIDE (TABLE G-1) SCUPPER TOTAL: 3 SCUPPERS @ 30" WIDE DOWNSPOUT SIZING: SMACNA TABLE 1-2, storms which should be exceeded only once in 10 years RAINFALL INTENSITY IN IN/HR: 8.2 IN/HR CALCULATED ROOF AREA DRAINED PER DOWNSPOUT AREA: 150 S.F./S.I. 7,350 S.F./150 S.F./S.I. = 49 S.I. TOTAL DOWNSPOUT AREA. REQUIRED SIZE @ 3 DOWNSPOUTS 43/3 = 15 S.I. (ASSUME 6" \times 6" SQUARE DOWNSPOUT = 36 S.I. EACH = 108 S.I. > 15 S.I. NOTE: EMERGENCY OVERFLOW SYSTEM TO EQUAL REGULAR SYSTEM @ +2" ABOVE REGULAR SCUPPER

2 SCUPPER SIZING BUILDING B



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KEY NOTES TO SHEET:

- . ROOF SCUPPER AND DOWNSPOUTS.
- 2. OVERFLOW SCUPPER TO MATCH REGULAR
- 3. ROOF LADDER AND PLATFORM. RE: 3&4/A3.4. 4. 30" SQUARE min. FLEXIBLE PLASTIC WALK PAD (5/16" thk. min.)
- 5. ŘTÚ ZONE. REFER STRUC DWGS FOR ADDITIONAL
- INFORMATION. PORTALS PLUS 5 HOLE PIPE PORTAL FLASHING
- SYSTEM, #29430. MTL ROOF OF RISER ROOM BELOW.
- . CANOPY BELOW W/ TPO ROOFING. PROVIDE ALL SUPPORT, BLOCKING AND FLASHING FOR A
- COMPLETE INSTALLATION. 9. 3"Ø DOWNSPOUT IN FORMED GUTTER. DRAIN THRU CANOPY.
- 10. SCHEDULED ROOF ON RIGID INSULATION ON
- METAL DECK. 11. AWNING W/ STANDING SEAM ROOF ON PAINTED
- METAL FRAME. 12. PREFINISHED STANDING SEAM MTL ROOF ON §"
- FIRE RETARDANT TREATED PLYWOOD DECK ON METAL ENGINEERED TRUSS SYSTEM. REFER STRUC DWGS FOR ADDITIONAL INFORMATION.



ROOFING GENERAL NOTES:

- A. MAIN ROOF SHALL BE MODIFIED BITUMINOUS CAP SHEET SHALL MEET THE FOLLOWING COOL
- ROOF REQUIREMENTS. A.1. 3 YEAR AGED SOLAR REFLECTANCE >= 0.55
 AS TESTED PER ONE OF THE FOLLOWING:
 ASTM C1549, ASTM E903, ASTM E1175, or
- ASTM E1918. A.2. 3 YEAR AGED THERMAL EMITTANCE >=0.75 AS TESTED PER ONE OF THE FOLLOWING: ASTM C835, ASTM C1371, or ASTM E408 REFER SPECIFICATIONS FOR ADDITIONAL
- INFORMATION. B. ROOF INSULATION SHALL BE A MINIMUM OF
- HORIZONTAL CANOPIES ARE 60 MIL TPO ROOFING

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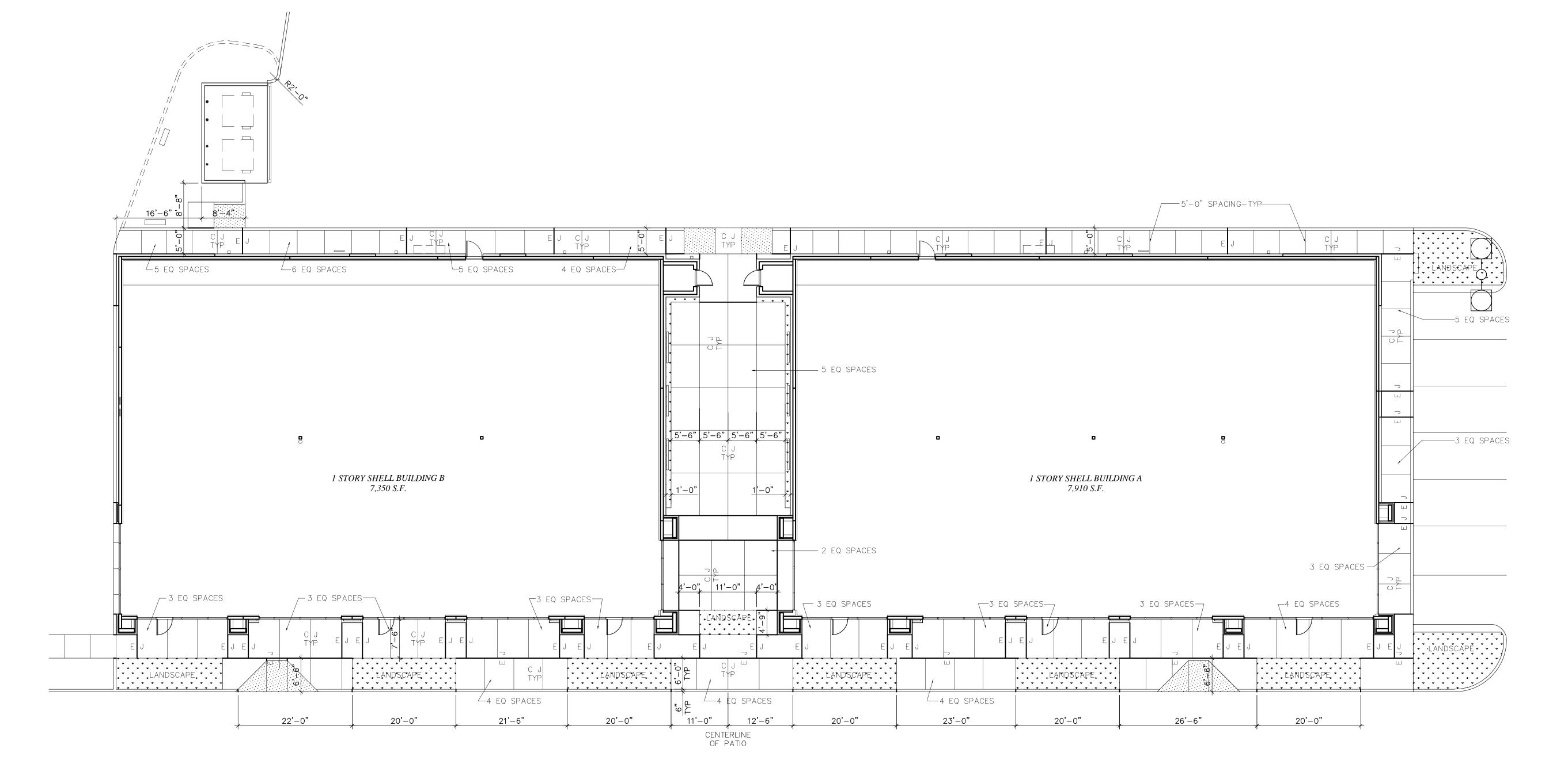
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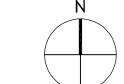
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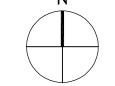
ROOF PLAN BUILDING B







SIDEWALK PLAN 3/32"= 1'-0"



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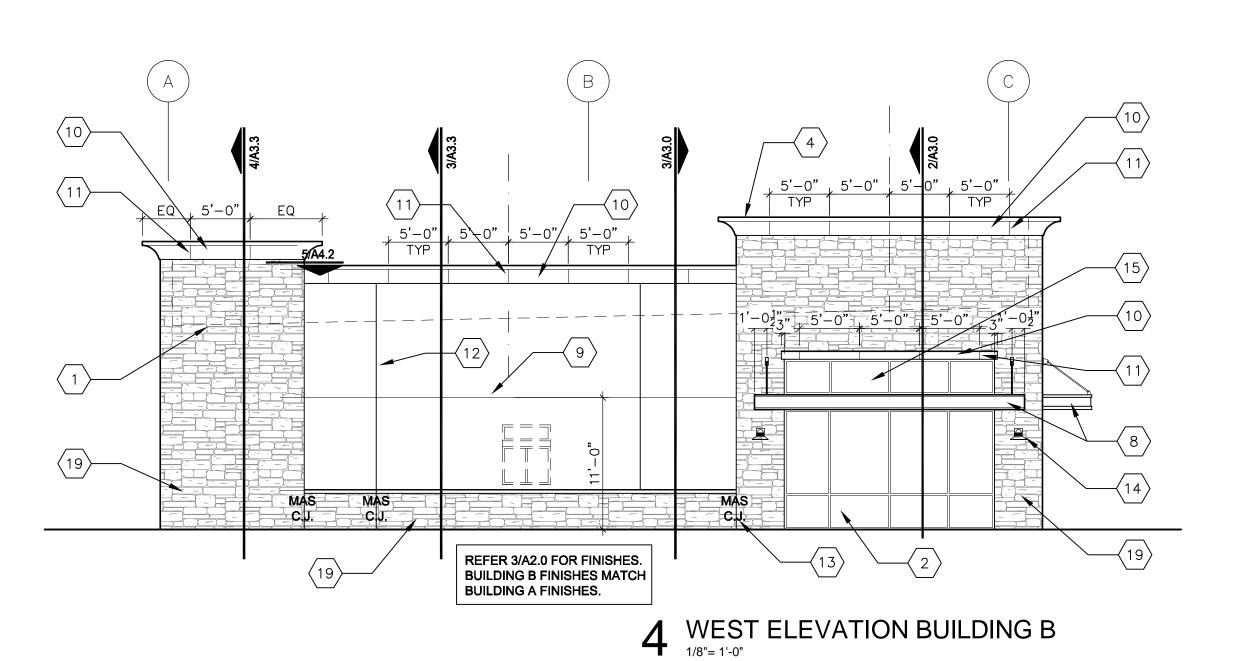
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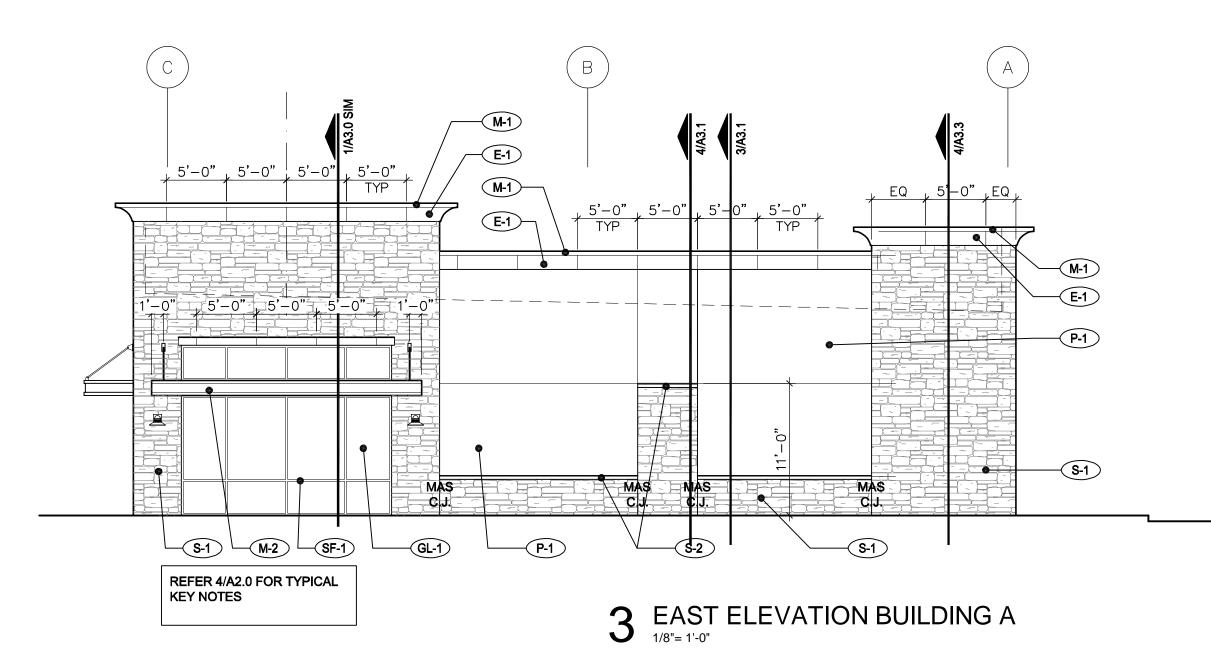
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SIDEWALK PLAN

A1.5



2



| IZEV/ | MATERIAL | DESCRIPTION/MFR | COLOR NUMBER/NAME | NOTES |
|-------------|------------------------|---|-------------------------------|-------|
| KEY | MATERIAL | DESCRIPTION/MFR | COLOR NOWIBER/NAWIE | NOTE |
| <u>S-1</u> | STONE VENEER | ALAMO STONE-FULL STONE, CHOP/ASHLER STONE PATTERN | ALAMO CREAM | 3,5 |
| <u>\$-2</u> | CAST STONE | SITEWORKS | CREAM | 1,3 |
| MRT | MORTAR | AMERIMIX COLORED MORTAR MIX | LIGHT TAN | 3 |
| <u>E-1</u> | EIFS CORNICE & TRIM | EIFS FINISH COAT ACCENT COLOR | MATCH SW 6105 DIVINE WHITE | 5 |
| P-1 | TEXTURED COATING | EIFS TEXTURED COATING ON FACE OF TILTWALL | SW 6093 FAMILIAR BEIGE | 4 |
| (P-2) | PAINT | STEEL AWNING FRAMES & PANEL BOTTOMS | SW 6002 ESSENTIAL GREY | - |
| P-3 | PAINT | DOORS, FRAMS, MISC METALS & EQUIPMENT | SW 6093 FAMILIAR BEIGE | - |
| M-1 | PREFINISHED METAL | CAP FLASHING @ PARAPET-BERRIDGE | ALMOND | - |
| M-2 | PREFINISHED METAL | CANOPY FASCIA COVER-BERRIDGE | ACRYLIC-COATED GALVALUME | 2 |
| M-3 | STANDING SEAM ROOF | SLOPED ROOF/AWNINGS-BERRIDGE | ACRYLIC-COATED GALVALUME | 2 |
| M-4 | PREFINISHED MTL SHAPES | SCUPPERS, DOWNSPOUTS, MISC TRIM-BERRIDGE | ALMOND | - |
| (SF-1) | ALUMINUM STOREFRONT | REFER SPECIFICATIONS | CLEAR ANODIZED | - |
| (GL-1) | STOREFRONT GLASS | PPG SOLARBAN 70XL LOW-E | CLEAR/CLEAR | - |

GENERAL NOTES:

- 1. MATERIALS & LOCATIONS TO BE VERIFIED BY DEVELOPER PRIOR TO CONSTRUCTION. PROVIDE SAMPLES AND CONSTRUCT MOCK UPS FOR DEVELOPER APPROVAL IN A TIMELY MANNER, SO AS NOT TO DELAY PROJECT. REFER SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. PAINT ELECTRICAL EQUIPMENT AND MISC METALS TO MATCH ADJACENT TILT WALL FINISH-TYPICAL. 3. SEALANT SHALL, MATCH ADJACENT COLOR UNLESS OTHERWISE NOTED.

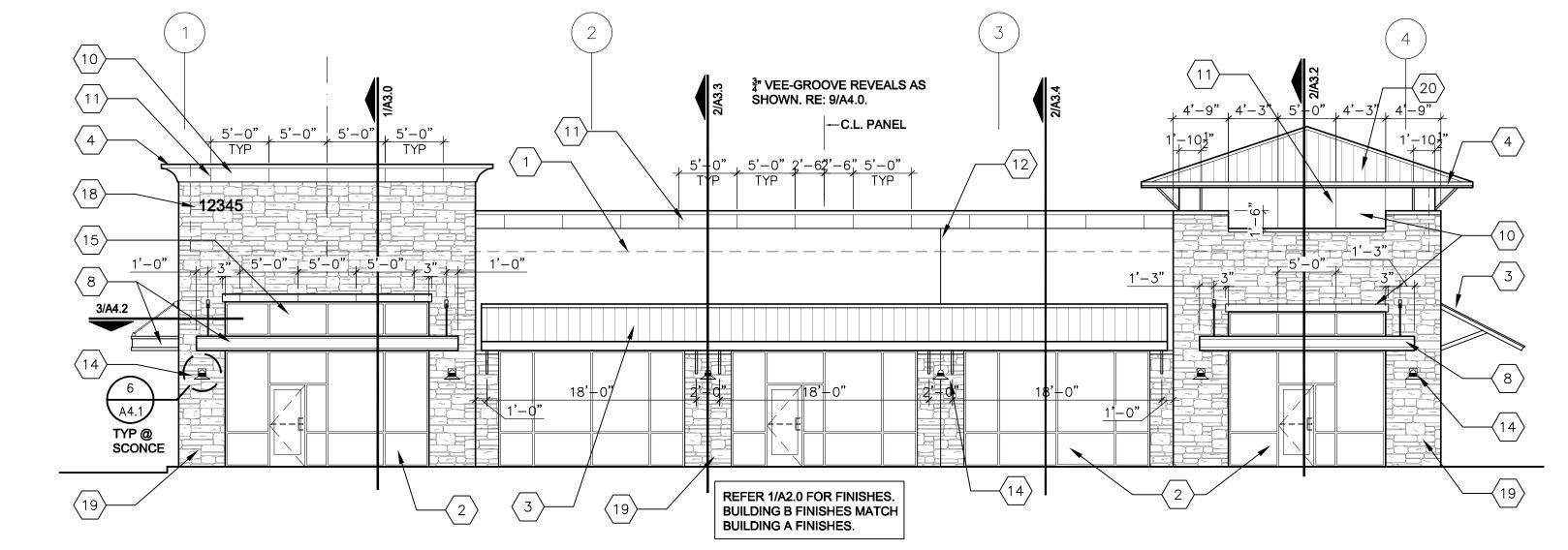
KEYED NOTES: $\sqrt{2}$

BOARD: SAND PEBBLE FINE TEXTURE.

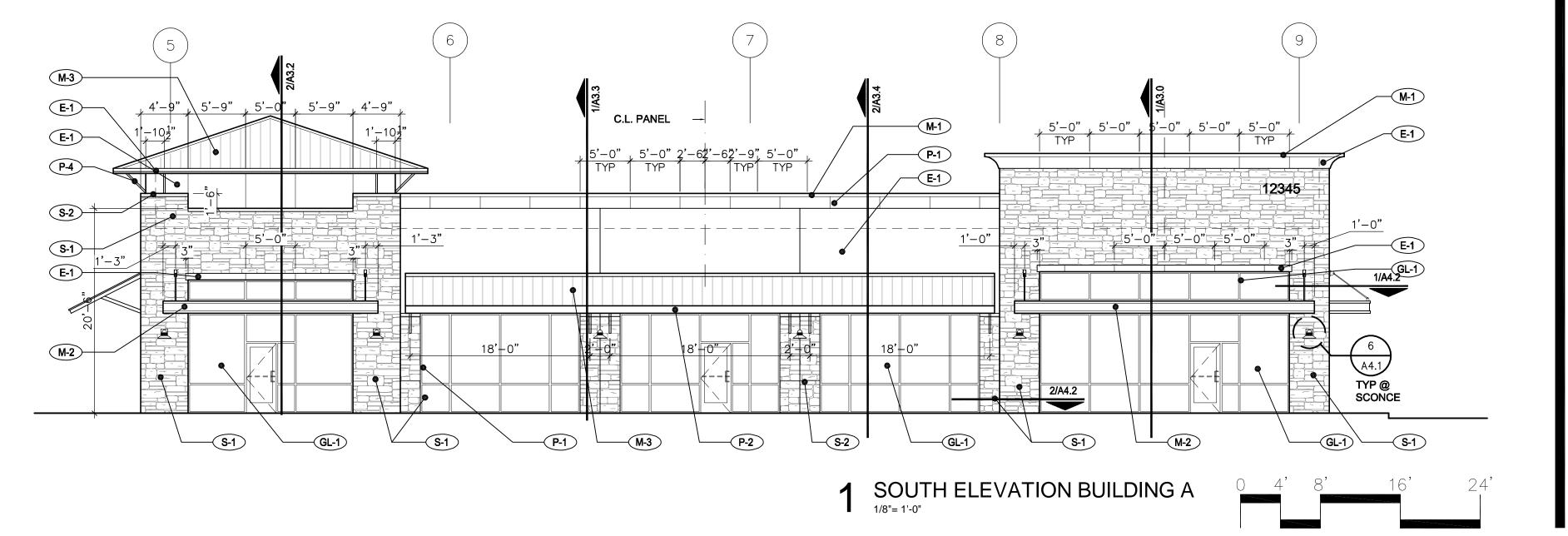
- PROVIDE CAST CORNER SHAPES FOR ALL OUTSIDE CORNERS UNLESS NOTED OTHERWISE.
- STEEL CANOPY. PROVIDE ALL SUPPORT, BLOCKING, FASTENERS AND FLASHING FOR A COMPLETE INSTALLATION. 3. MORTAR COLOR TO MATCH PHASE ONE ALL LOCATIONS. FOLLOW MORTAR COLOR MANUFACTURERS WRITTEN INSTRUCTIONS. TEXTURED COATING ON TILTWALL SHALL MATCH STO MEDIUM FINISH EIFS COATING

4. FINISH COAT OVER EPS CORNICE AND TRIM: SAND PEBBLE FINE TEXTURE. EIFS FINISH COAT OVER DENSGLASS SOFFIT

5. VERIFY STONE PATTERN & COLOR WITH ADJACENT RETAIL DEVELOPMENT AND COORDINATE WITH ALAMO STONE SUPPLIER.



2 SOUTH ELEVATION BUILDING B



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NOTES TO 2 SERIES SHEETS:

- ROOF LINE (DASHED).
- SCHEDULED ALUMINUM AND GLASS STOREFRONT with 1" INSULATED LOW-E GLASS. REFER FINISH SCHEDULE.
- SCHEDULED PREFINISHED ROOF PANEL AWNINGS. REFER WALL SECTIONS AND DETAILS.
- PREFINISHED METAL COPING . REFER 3/A3.5 FOR TYP JOINT
 - PREFINISHED MTL SCUPPER AND DOWNSPOUT. TIE TO
 - UNDERGROUND. REFER CIVIL DRAWINGS.
- ROOF ACCESS LADDER. COORDINATE LOCATION W/ UTILITIES AND LANDLORD ON REAR WALL. RE: SHEET A3.5.
- ELECTRICAL SERVICE. RE: ELECTRICAL DWGS. COORDINATE LOCATIONS WITH DOWNSPOUTS. VERIFY FINAL LOCATION
- STEEL CANOPY WITH ALUMINUM CLADDING. RE: WALL
- SECTIONS & DETAILS.
- CONC TILTWALL PANEL REVEALS-3/4" DEEP TYP. RE: 9/A4.0. 10. EIFS CORNICE AND TRIM.
- 11. EIFS VEE-GROOVE REVEAL. RE: 9/A4.0. 12. PANEL JOINT W/ INTEGRAL CUSTOM COLOR SEALANT.
- 13. MASONRY CONTROL JOINT.
- 14. WALL SCONCE. REFER ELECTRICAL DRAWINGS. 15. SCHEDULED STOREFRONT TRANSOM, CONFIRM W/ OWNER IF AN OPAQUE COATING IS TO BE APPLIED ON BACK OF GLASS.
- 16. CAST STONE. 17. PREFINISHED MTL OVERFLOW SCUPPER.
- 18. 2" MINIMUM, RAISED, 12" ALUMINUM, PIN SET ADDRESS
- 19. SCHEDULED STONE VENEER.
- 20. SCHEDULED PREFINISHED ROOF PANELS ON #30 FELT ON
- F.R.T. PLYWOOD DECK ON MTL FRAMING. 21. LANDSCAPE TRELLIS. REFER LANDSCAPE DRAWINGS.



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REFER SHEET A2.1 FOR EXTERIOR MATERIAL RATIOS

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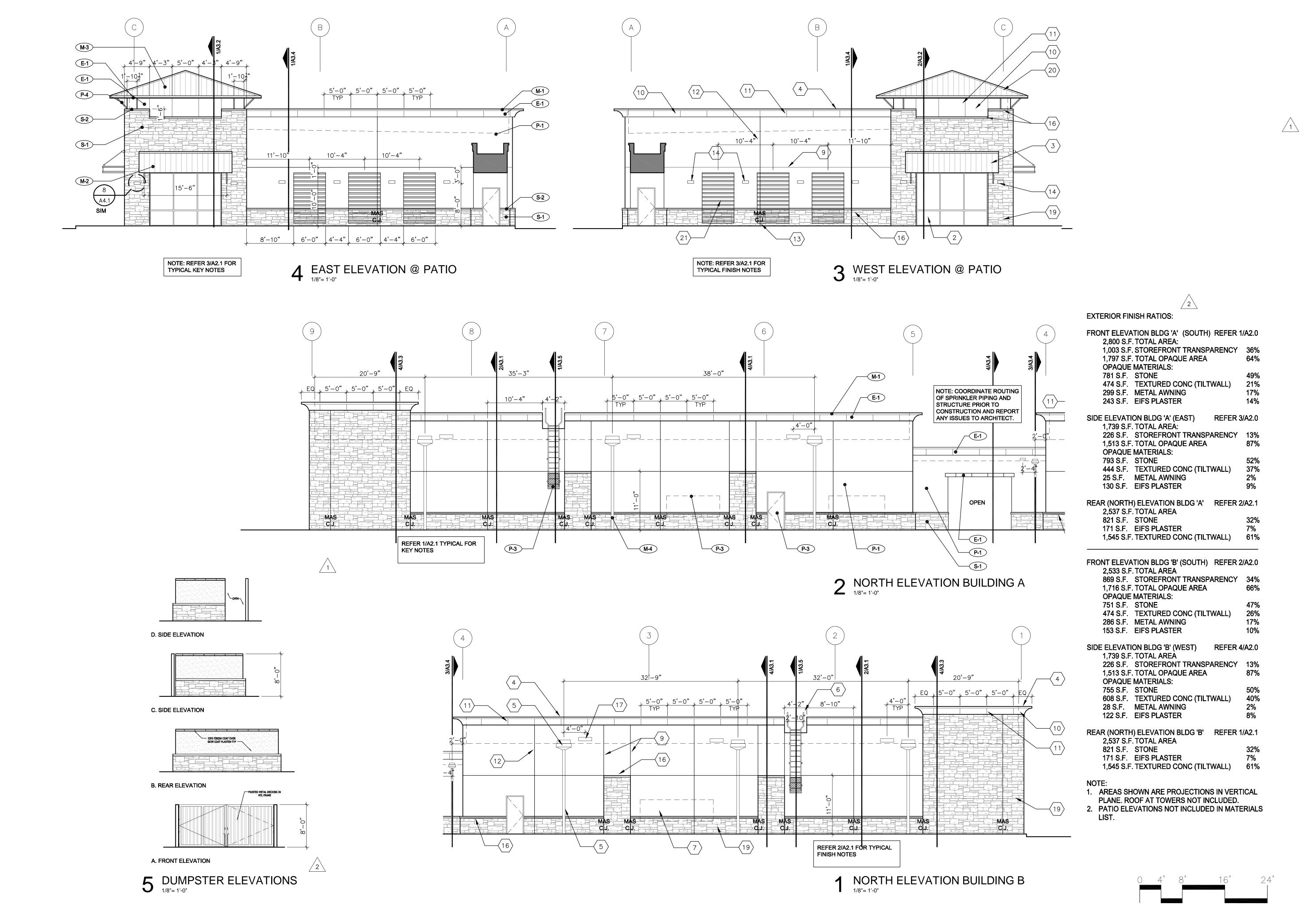
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EXTERIOR ELEVATIONS

A2.0



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NOTES TO 2 SERIES SHEETS:

ROOF LINE (DASHED).

- SCHEDULED ALUMINUM AND GLASS STOREFRONT with 1"
- INSULATED LOW-E GLASS. REFER FINISH SCHEDULE. SCHEDULED PREFINISHED ROOF PANEL AWNINGS. REFER WALL SECTIONS AND DETAILS.
- PREFINISHED METAL COPING . REFER 3/A3.5 FOR TYP JOINT
 - PREFINISHED MTL SCUPPER AND DOWNSPOUT. TIE TO
 - UNDERGROUND. REFER CIVIL DRAWINGS.
- ROOF ACCESS LADDER. COORDINATE LOCATION W/ UTILITIES AND LANDLORD ON REAR WALL. RE: SHEET A3.5.
- ELECTRICAL SERVICE. RE: ELECTRICAL DWGS. COORDINATE LOCATIONS WITH DOWNSPOUTS. VERIFY FINAL LOCATION
- STEEL CANOPY WITH ALUMINUM CLADDING. RE: WALL SECTIONS & DETAILS.
- CONC TILTWALL PANEL REVEALS-3/4" DEEP TYP. RE: 9/A4.0.
- 10. EIFS CORNICE AND TRIM. 11. EIFS VEE-GROOVE REVEAL. RE: 9/A4.0.
- 12. PANEL JOINT W/ INTEGRAL CUSTOM COLOR SEALANT.
- 13. MASONRY CONTROL JOINT. 14. WALL SCONCE. REFER ELECTRICAL DRAWINGS.
- 15. SCHEDULED STOREFRONT TRANSOM, CONFIRM W/ OWNER IF AN OPAQUE COATING IS TO BE APPLIED ON BACK OF GLASS.
- 16. CAST STONE.
- 17. PREFINISHED MTL OVERFLOW SCUPPER.
- 18. 2" MINIMUM, RAISED, 12" ALUMINUM, PIN SET ADDRESS
- 19. SCHEDULED STONE VENEER.
- 20. SCHEDULED PREFINISHED ROOF PANELS ON #30 FELT ON
- F.R.T. PLYWOOD DECK ON MTL FRAMING. 21. LANDSCAPE TRELLIS. REFER LANDSCAPE DRAWINGS.



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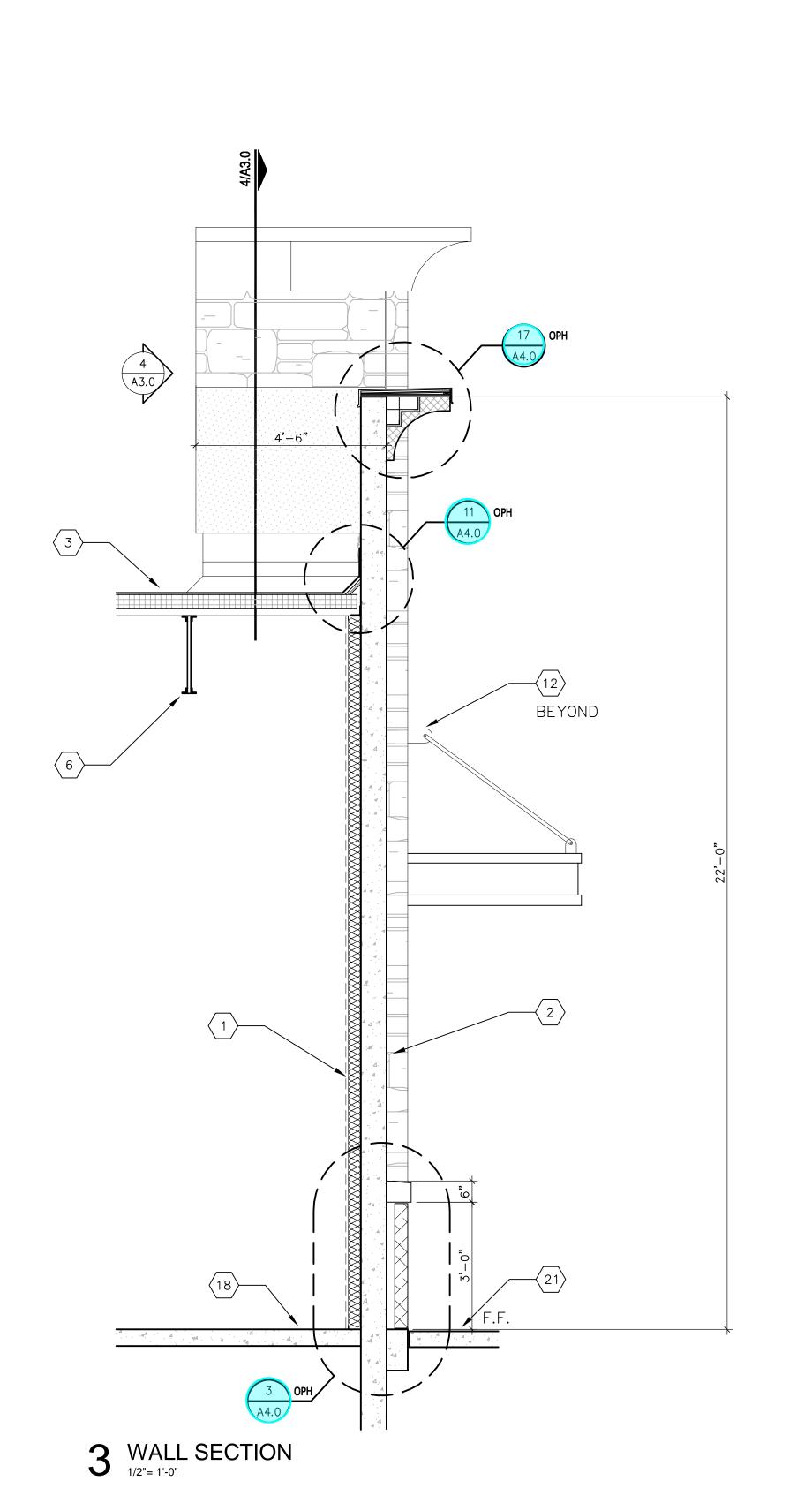
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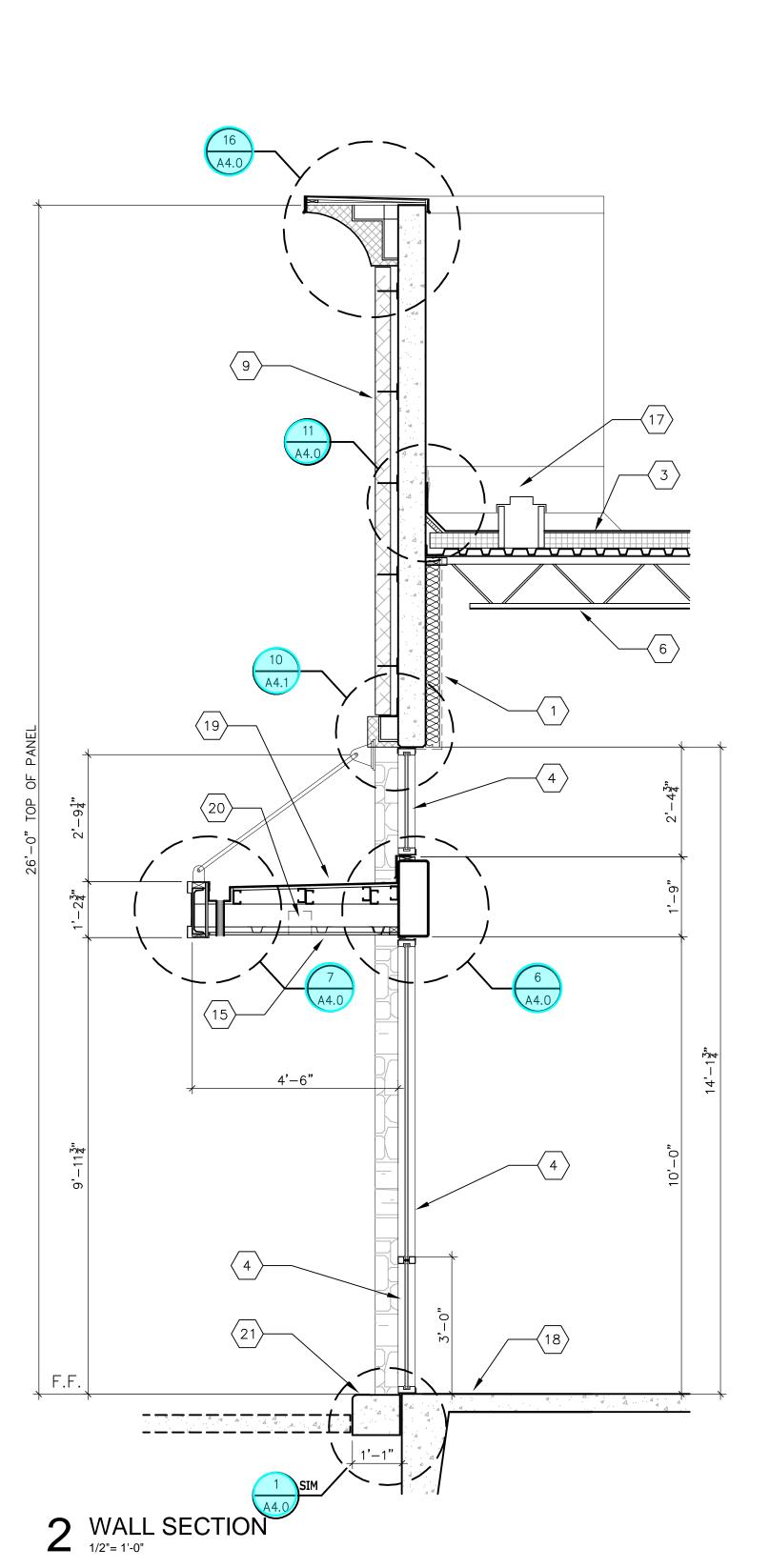
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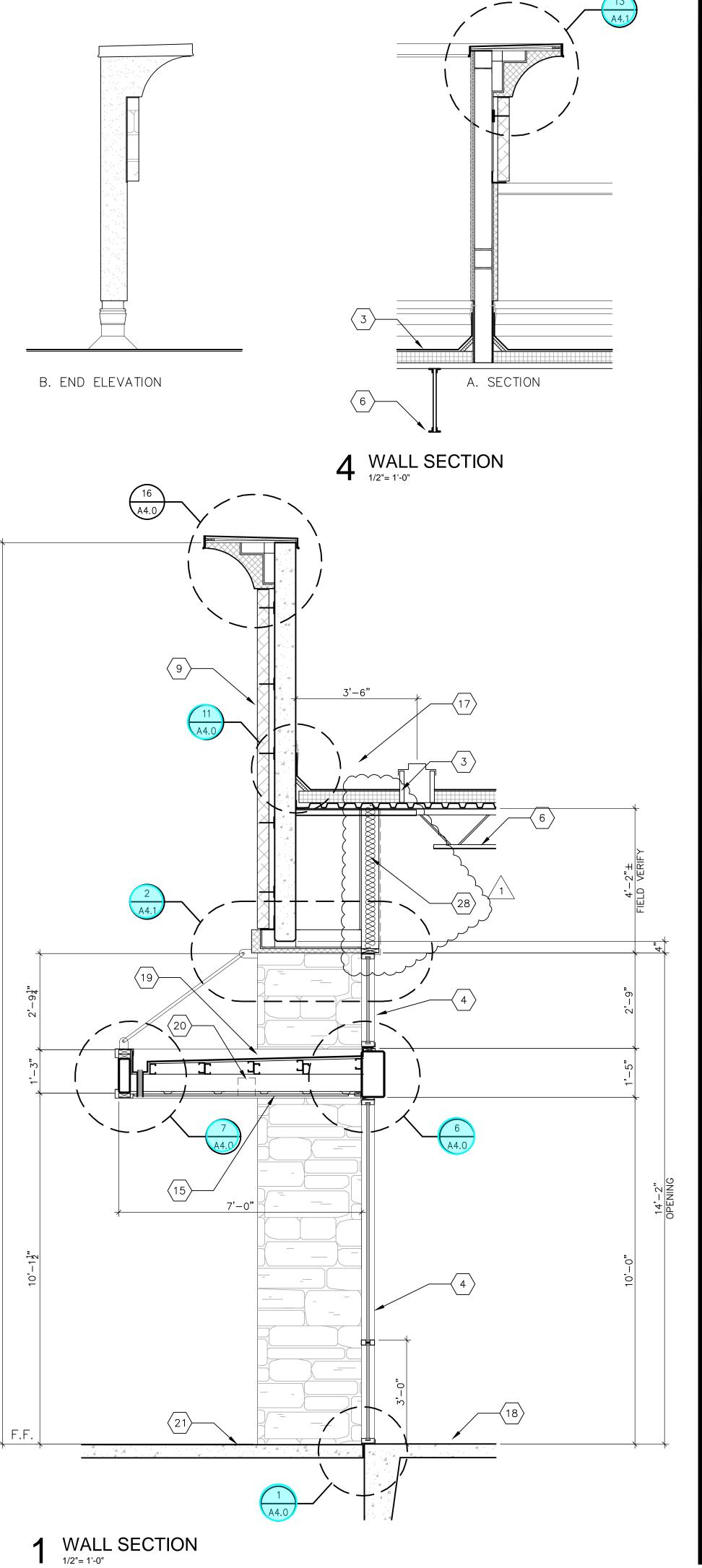
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EXTERIOR ELEVATIONS









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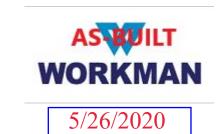
KEY NOTES TO 3 SERIES SHEETS:

- 3 🖁 26 GAUGE MTL STUDS @ 24" OC FULL HEIGHT W/ R-15 BATT INSULATION.
- TILT WALL PANEL W/SCHEDULED COATING. SCHEDULED ROOF ON RIGID INSULATION ON METAL DECK.
- SCHEDULED ALUMINUM AND GLASS STOREFRONT W/ 1" INSULATED GLASS. TÉE PANEL STANDING SEAM MTL ROOF ON
- PAINTED STEEL TUBE FRAME. NOTE: UNDERSIDE OF ROOF PANELS TO BE EXPOSED AND PAINTED TO MATCH THE METAL FRAME. NO EXPOSED FASTENERS OF ANY KIND.
- STL FRAMING. RE: STRUC DWGS. PREFINISHED MTL SCUPPER & 6"X6" DOWNSPOUT. 3/4" DEEP TILT WALL REVEAL. RE: 9/A4.0 & EXTERIOR ELEVATIONS FOR ADDITIONAL
- INFORMATION. SCHEDULED STONE VENEER. PROVIDE GALV ADJUSTABLE MASONRY TIES AT MINIMUM 1 TIE PER 2 SQUARE FEET WALL SURFACE. HOHMANN & BARNARD HB-213-HS. COORDINATE DEPTH OF TIES REQUIRED FOR PROPER EMBEDMENT.
- D. TREATED WOOD BLOCKING. 1. 5'-0" WIDE SLAB LEAVE OUT.
- 12. PREFINISHED GUTTER STRAPS @ 5'-0" OC-TYP. 13. EIFS TRIM.
- 14. WALL SCONCE. RE: ELECTRICAL DRAWINGS. MOUNT CENTERED ON CAST STONE MEDALLION.
- RE: 6/A4.1. 15. 5/8" DENSGLASS W/ EIFS BASE & FINISH COAT
- ON $\frac{7}{8}$ " GALV HAT CHANNELS @ 16" OC. 6. 30" SQUARE min. FLEXIBLE PLASTIC WALK PAD (5/16" thk. min.)
- '. FIVE HOLE PIPE PORTAL FLASHING SYSTEM. PORTALS PLUS 29430 OR APPROVED EQUAL.
- 18. CONC FOUNDATION. RE: STRUC DRAWINGS. 19. CANOPY W/ TPO ROOFING ON 5/8" EXTERIOR GRADE PLYWOOD DECK ON LIGHT GAUGE MTL FRAMING. SLOPE 1/4"/FT TO GUTTER. PROVIDE ALL SUPPORT, BLOCKING AND FLASHING FOR A
- COMPLETE INSTALLATION. 20. SCHEDULED RECESSED DOWN LIGHT. COORDINATE INSTALLATION W/ CANOPY FRAMING PRIOR TO CONSTRUCTION. RE: ELECTRICAL DRAWINGS.
- . CONC SIDEWALK. 22. 6" 18 GA MTL STUDS AT 16" OC. BRACE TO
- STRUCTURE AT 48" OC MAX. 23. TIE DOWNSPOUT TO UNDERGROUND STORM LINE.
- REFER CIVIL FOR CONTINUATION. 4. CONTINUE ROOF INSULATION UNDER TOWER. 5. SCHEDULED COATING OVER BLOCK FILLER ON
- CMU WALL. PREP WALL TO CONCEAL MORTAR JOINTS PRIOR TO FINISH. 26. 42"H X 36"W KEYED EXTERIOR ACCESS DOOR.
- BABCOCK DAVIS BXT OR APPROVED EQUAL-PAINT TO MATCH ADJACENT EIFS FINISH.
- 27. 1 3" EIFS ON 3" SHEATHING ON 6" MTL STUDS.

28. § SHEATHING ON 6 MIL STUDS.

28. VE: STRUC DWGS.

28. OC W/ BATT INSULATION.



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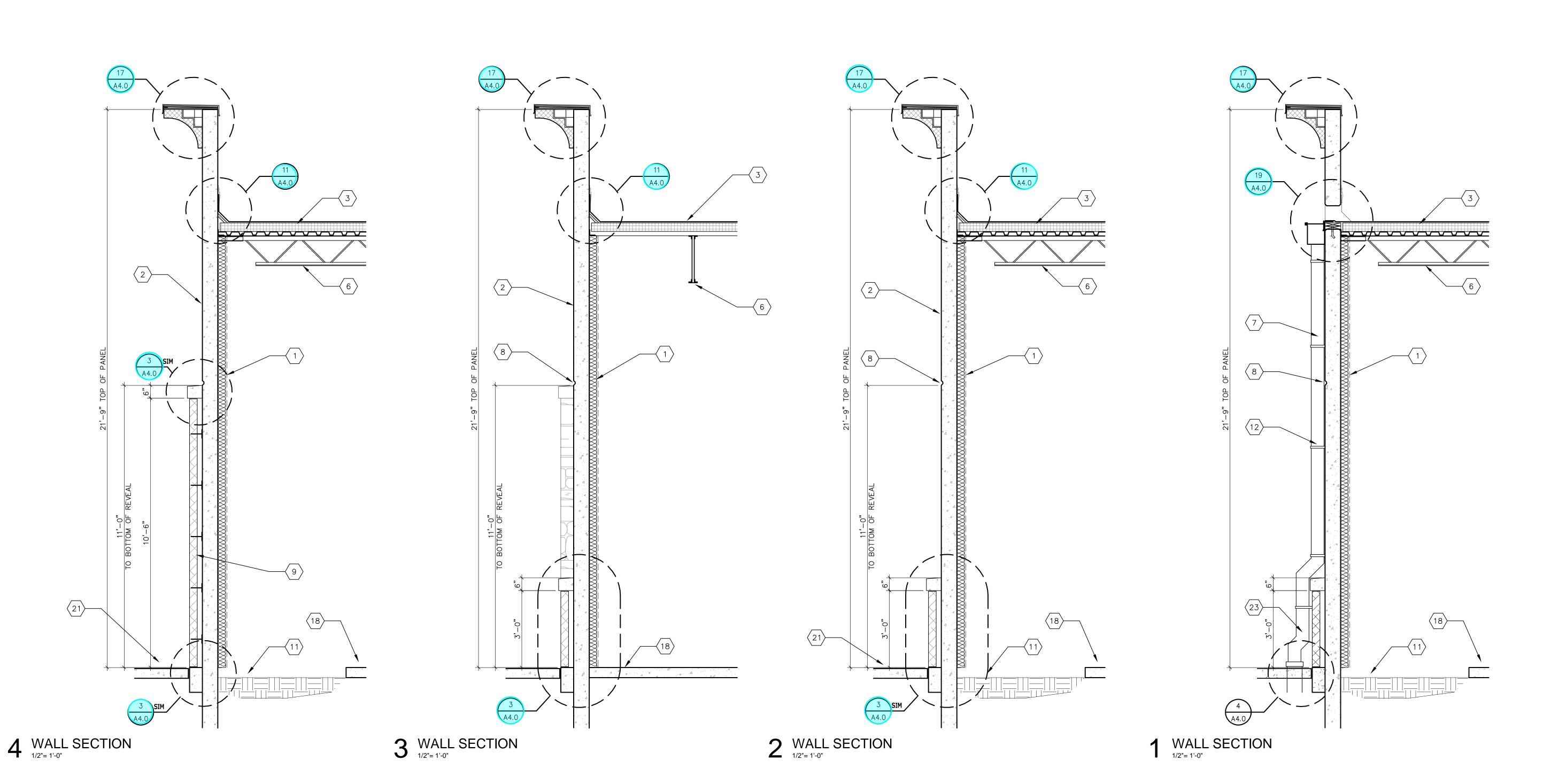
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WALL SECTIONS



14 SEP 2018 FOR PERMIT & REVIEW 14 NOV 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION

KEY NOTES TO 3 SERIES SHEETS:

- 3 § 26 GAUGE MTL STUDS @ 24" OC FULL
- HEIGHT W/ R-15 BATT INSULATION. TILT WALL PANEL W/SCHEDULED COATING.
- SCHEDULED ROOF ON RIGID INSULATION ON METAL DECK.
- SCHEDULED ALUMINUM AND GLASS STOREFRONT W/ 1" INSULATED GLASS.
- TÉE PANEL STANDING SEAM MTL ROOF ON PAINTED STEEL TUBE FRAME. NOTE: UNDERSIDE OF ROOF PANELS TO BE EXPOSED AND PAINTED TO MATCH THE METAL FRAME. NO EXPOSED
- FASTENERS OF ANY KIND. STL FRAMING. RE: STRUC DWGS.
- PREFINISHED MTL SCUPPER & 6"X6" DOWNSPOUT. . 3/4" DEEP TILT WALL REVEAL. RE: 9/A4.0 & EXTERIOR ELEVATIONS FOR ADDITIONAL
- INFORMATION. SCHEDULED STONE VENEER. PROVIDE GALV ADJUSTABLE MASONRY TIES AT MINIMUM 1 TIE PER 2 SQUARE FEET WALL SURFACE. HOHMANN & BARNARD HB-213-HS. COORDINATE DEPTH OF TIES REQUIRED FOR PROPER EMBEDMENT.
- 10. TREATED WOOD BLOCKING. 11. 5'-0" WIDE SLAB LEAVE OUT.
- 12. PREFINISHED GUTTER STRAPS @ 5'-0" OC-TYP. 13. EIFS TRIM.
- 14. WALL SCONCE. RE: ELECTRICAL DRAWINGS. MOUNT CENTERED ON CAST STONE MEDALLION.
- RE: 6/A4.1. 15. 5/8" DENSGLASS W/ EIFS BASE & FINISH COAT
- ON Z GALV HAT CHANNELS @ 16" OC. 16. 30" SQUARE min. FLEXIBLE PLASTIC WALK PAD
- (5/16" thk. min.)
- 7. FIVE HOLE PIPE PORTAL FLASHING SYSTEM. PORTALS PLUS 29430 OR APPROVED EQUAL.
- 18. CONC FOUNDATION. RE: STRUC DRAWINGS. 19. CANOPY W/ TPO ROOFING ON 5/8" EXTERIOR GRADE PLYWOOD DECK ON LIGHT GAUGE MTL FRAMING. SLOPE 1/4"/FT TO GUTTER. PROVIDE
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ALL SUPPORT, BLOCKING AND FLASHING FOR A

- 22. 6" 18 GA MTL STUDS AT 16" OC. BRACE TO STRUCTURE AT 48" OC MAX.
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- 24. CONTINUE ROOF INSULATION UNDER TOWER. 25. SCHEDULED COATING OVER BLOCK FILLER ON CMU WALL. PREP WALL TO CONCEAL MORTAR
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5/26/2020

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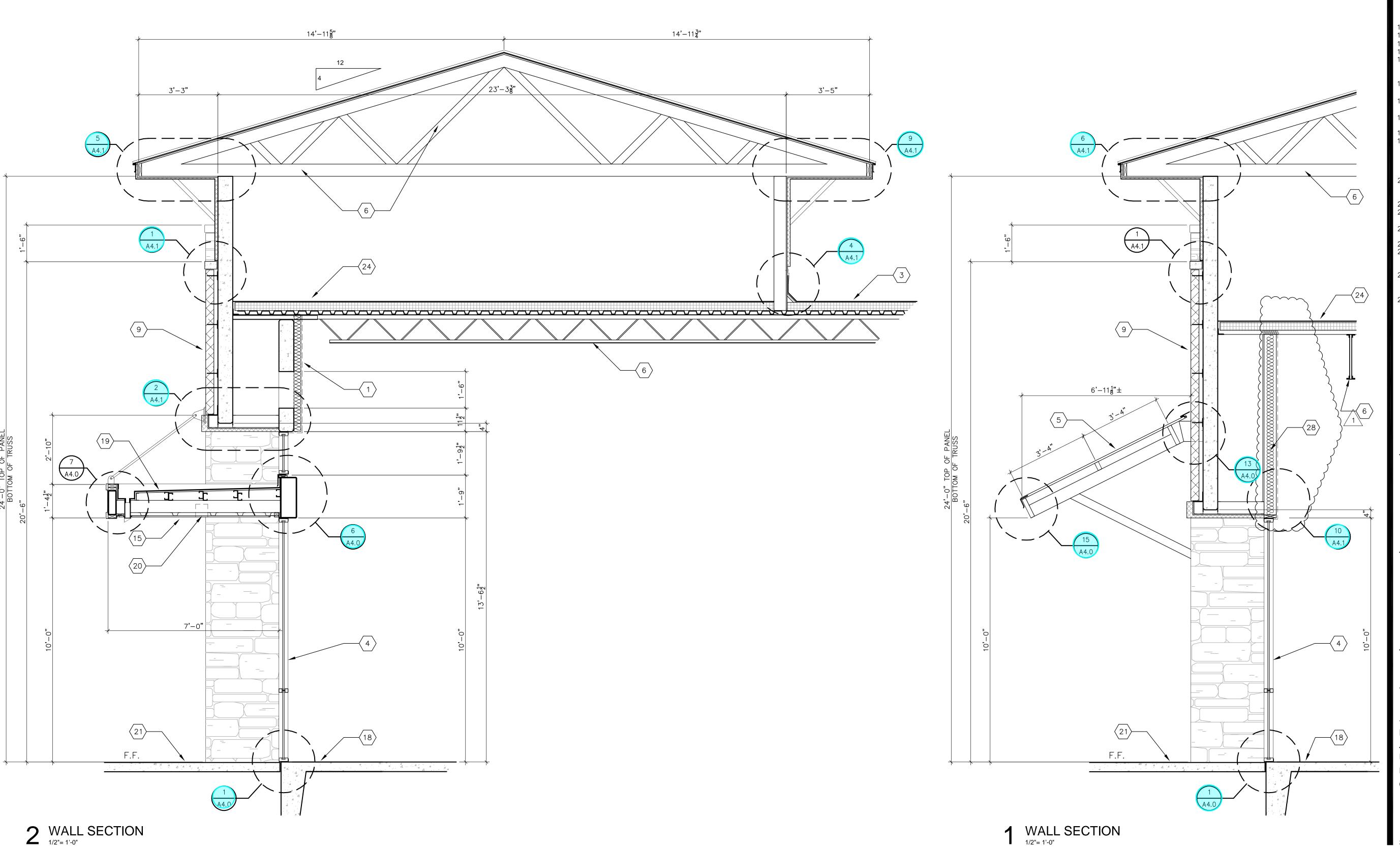
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WALL SECTIONS



14 SEP 2018 FOR PERMIT & REVIEW 14 NOV 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION / 30 JAN 2020 FRAMING REVISION/ $_1$ \

KEY NOTES TO 3 SERIES SHEETS:

- 3 № 26 GAUGE MTL STUDS @ 24" OC FULL HEIGHT W/ R-15 BATT INSULATION.
- TILT WALL PANEL W/SCHEDULED COATING.
- SCHEDULED ROOF ON RIGID INSULATION ON METAL DECK. SCHEDULED ALUMINUM AND GLASS STOREFRONT
- W/ 1" INSULATED GLASS. TÉE PANEL STANDING SEAM MTL ROOF ON PAINTED STEEL TUBE FRAME. NOTE: UNDERSIDE OF ROOF PANELS TO BE EXPOSED AND PAINTED
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- 12. PREFINISHED GUTTER STRAPS @ 5'-0" OC-TYP.
- 13. EIFS TRIM. 14. WALL SCONCE. RE: ELECTRICAL DRAWINGS.
- MOUNT CENTERED ON CAST STONE MEDALLION. RE: 6/A4.1.
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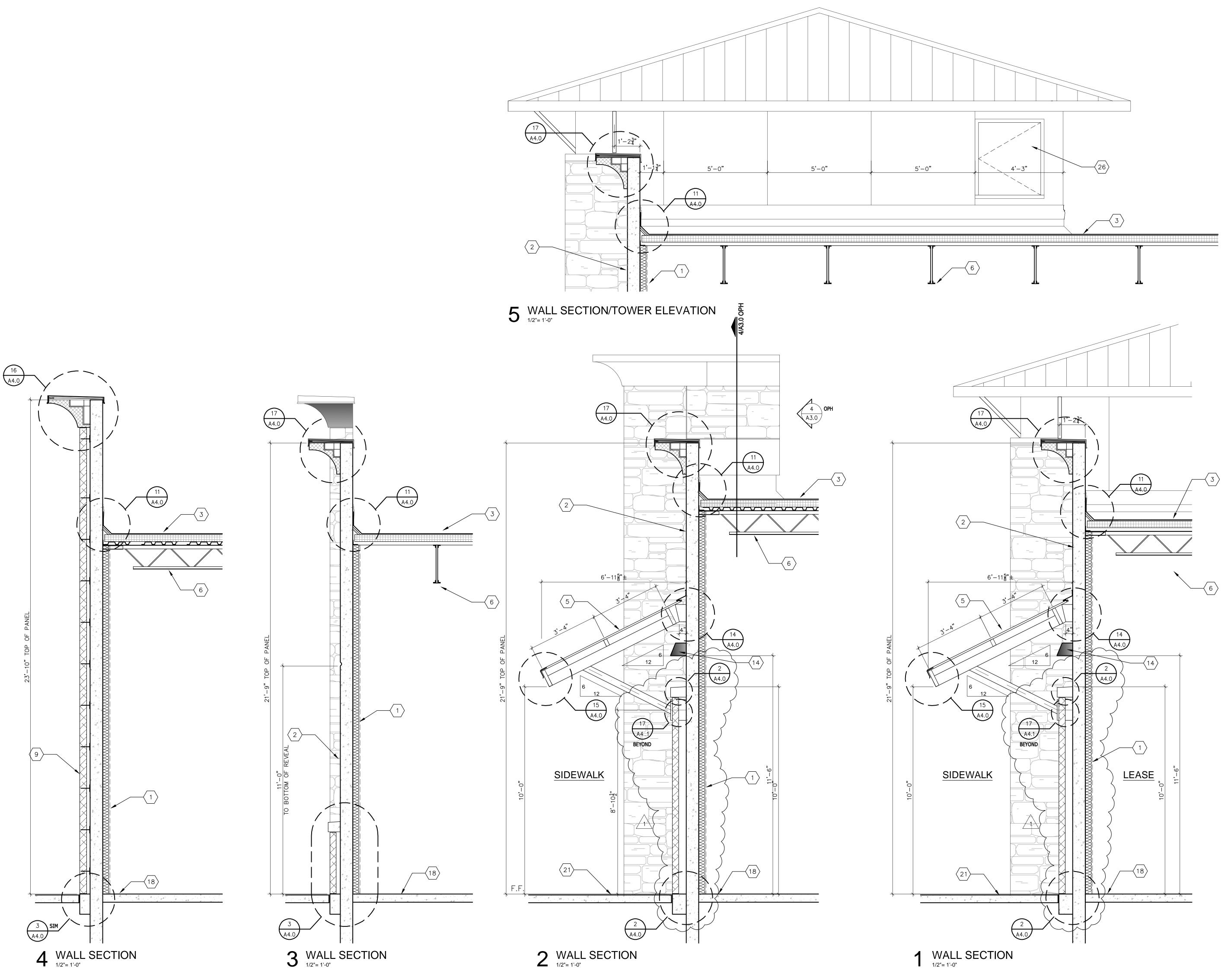
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WALL SECTIONS



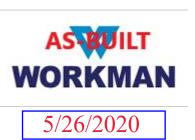
14 SEP 2018 FOR PERMIT & REVIEW 14 NOV 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION 26 SEP REVISED FOR CONSTRUCTION $^{\prime}$

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FRAMING. SLOPE 1/4"/FT TO GUTTER. PROVIDE

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- EQUAL-PAINT TO MATCH ADJACENT EIFS FINISH. 27. 1 1 EIFS ON 1 SHEATHING ON 6 MTL STUDS.



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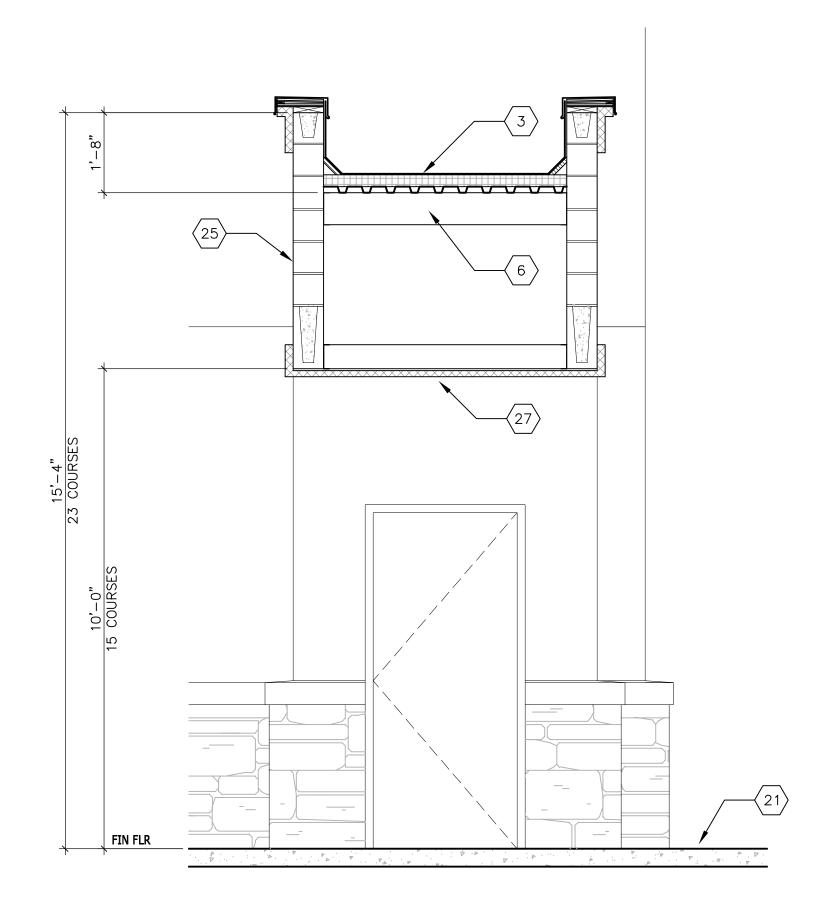
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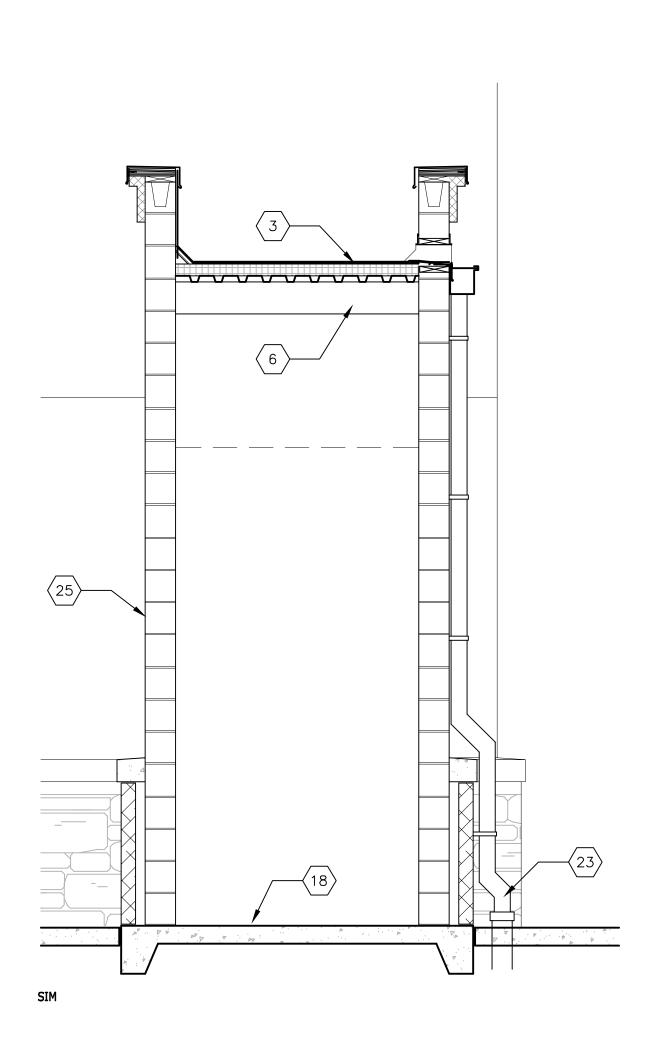
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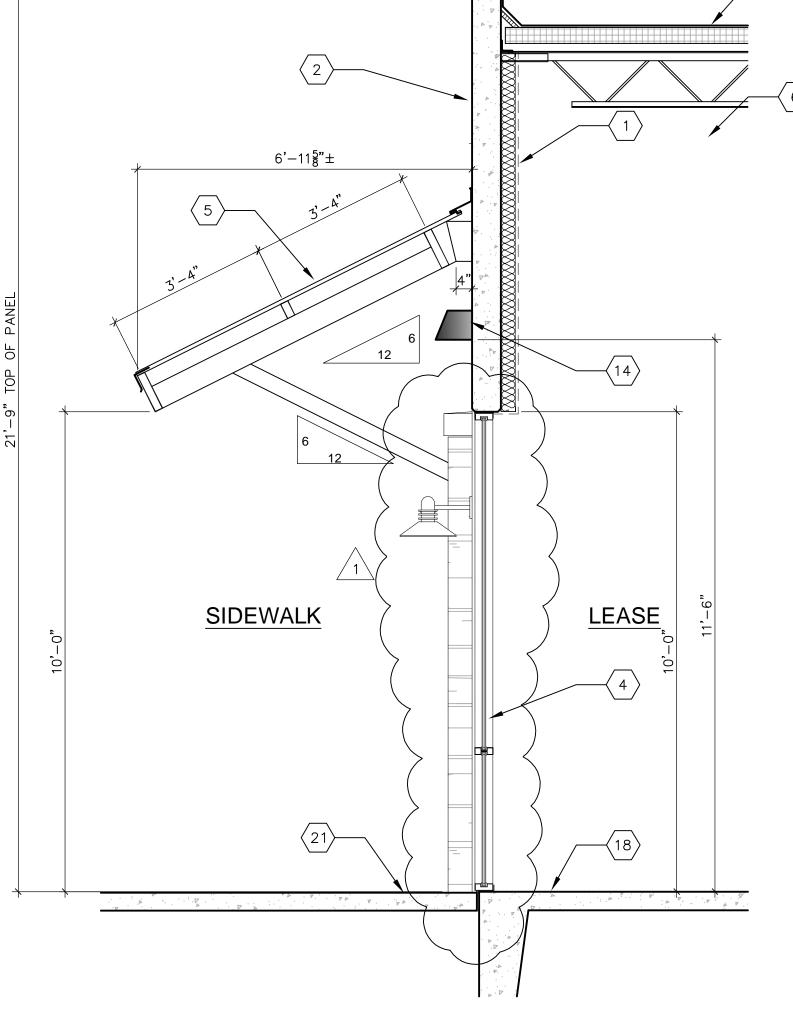
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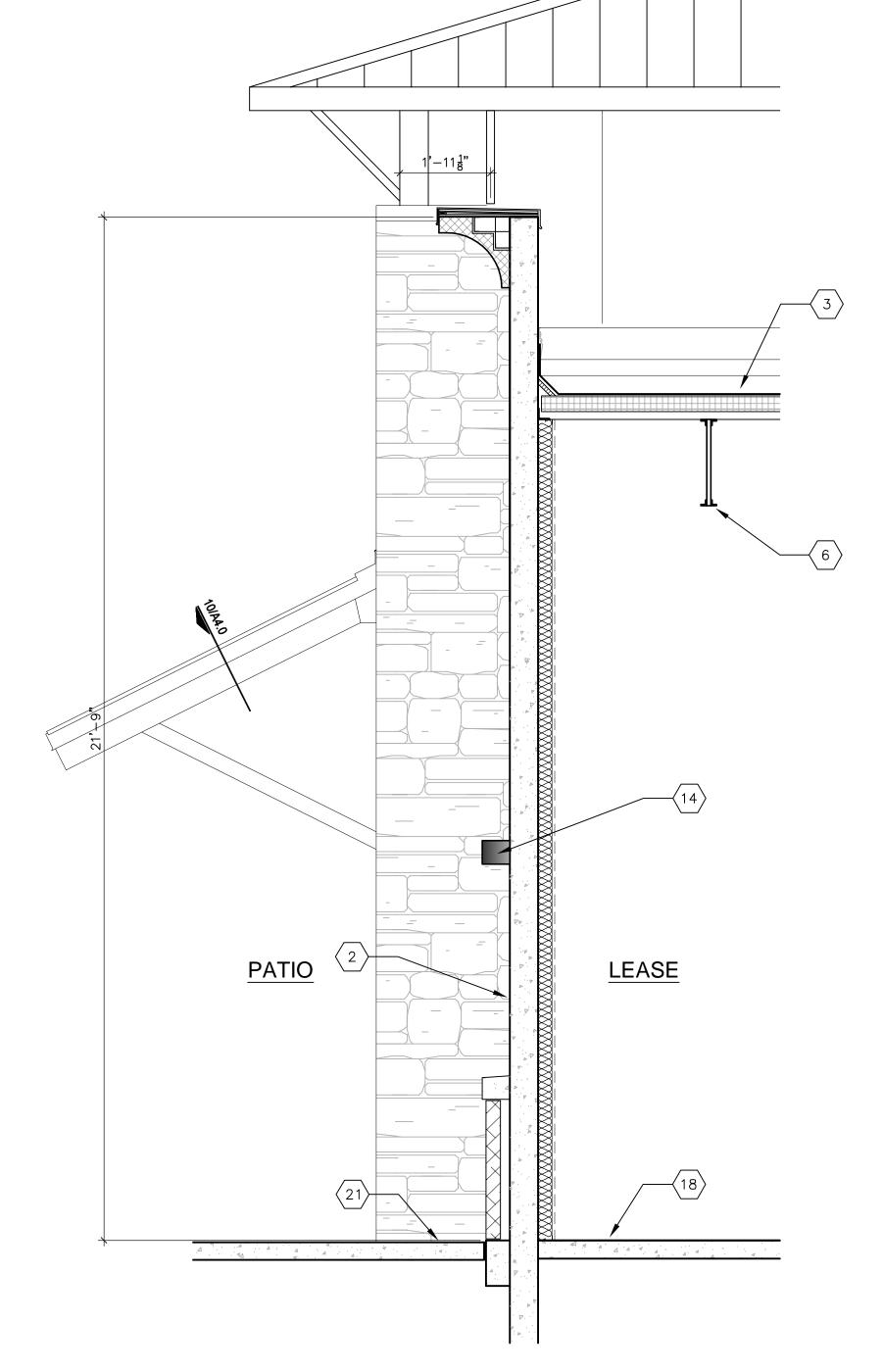
WALL SECTIONS



4 WALL SECTION 1/2"= 1'-0"







Date issued/revised

14 SEP 2018 FOR PERMIT & REVIEW
14 NOV 2018 FOR PRICING
15 MAR 2019 FOR PERMIT
2 JUL 2019 FOR CONSTRUCTION
26 SEP 2019 REVISED FOR CONSTRUCTION

KEY NOTES TO 3 SERIES SHEETS:

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- MOUNT CENTERED ON CAST STONE MEDALLION. RE: 6/A4.1.
- 15. 5/8" DENSGLASS W/ EIFS BASE & FINISH COAT ON 7 GALV HAT CHANNELS @ 16" OC.
- ON & GALV HAT CHANNELS @ 16 OC.

 16. 30" SQUARE min. FLEXIBLE PLASTIC WALK PAD
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- RE: STRUC DWGS.



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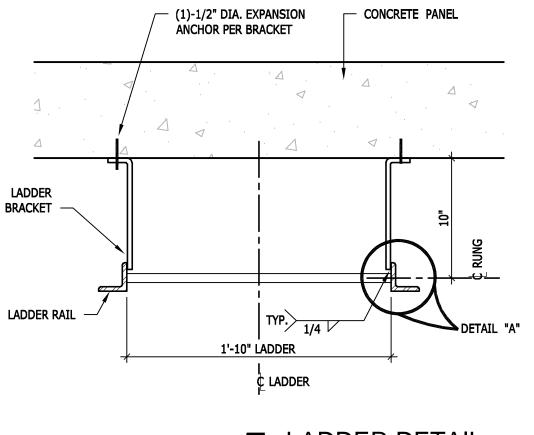
WALL SECTIONS

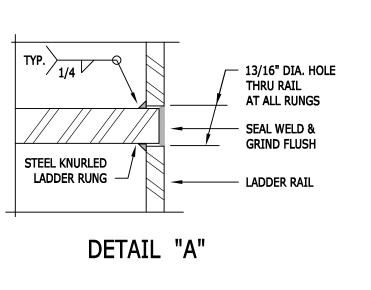
o. A3.4

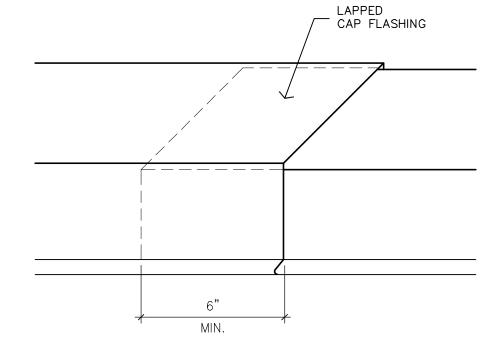
3 WALL SECTION 2 WALL SECTION 1/2"= 1'-0"

1 WALL SECTION
1/2"= 1'-0"

Sheet No.



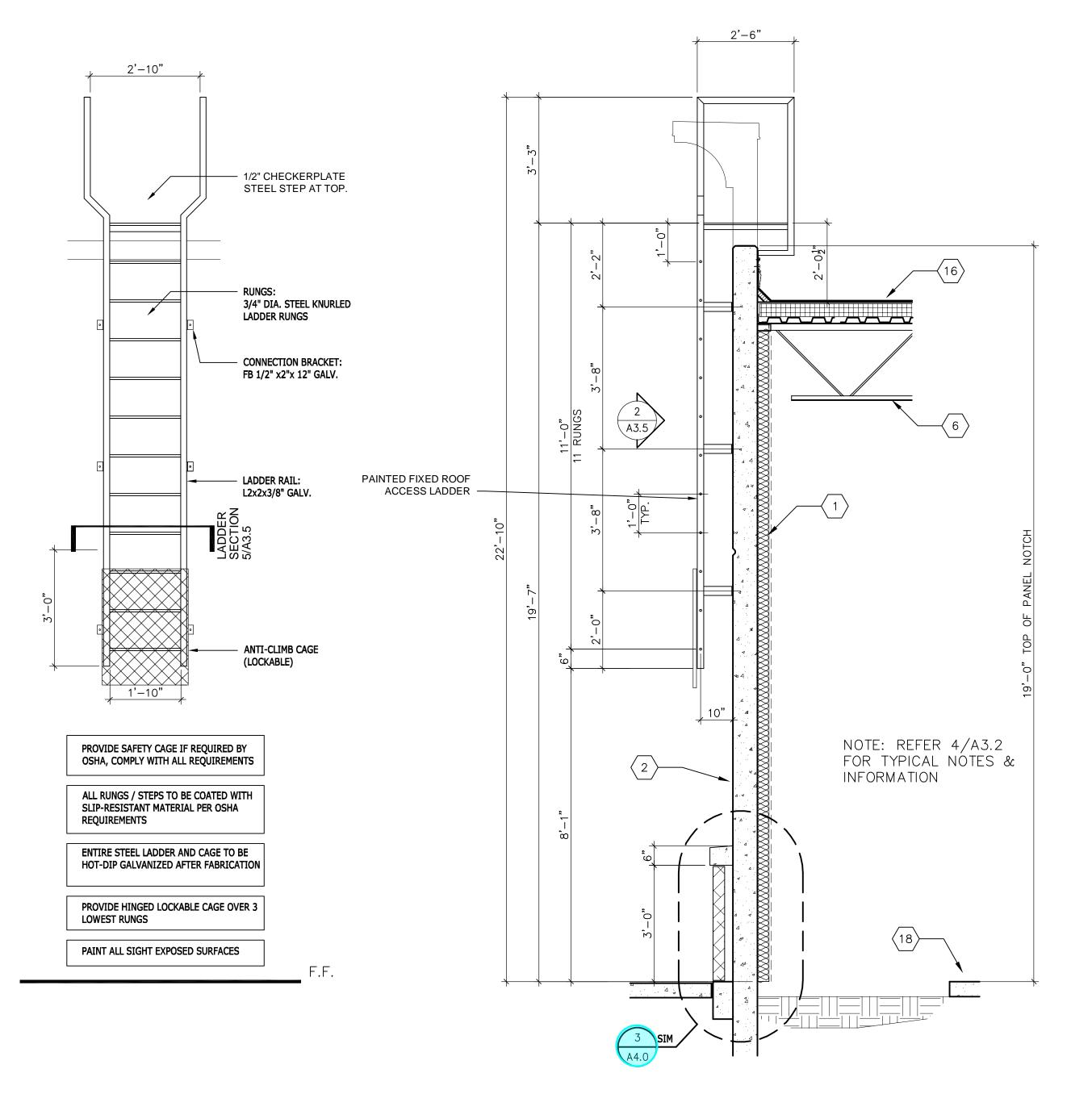




5 LADDER DETAIL
1 1/2"= 1'-0"

4 LADDER DETAIL

3 FLASHING JOINT



2 LADDER EELEVATION

1/2"= 1'-0"

1 WALL SECTION
1/2"= 1'-0"

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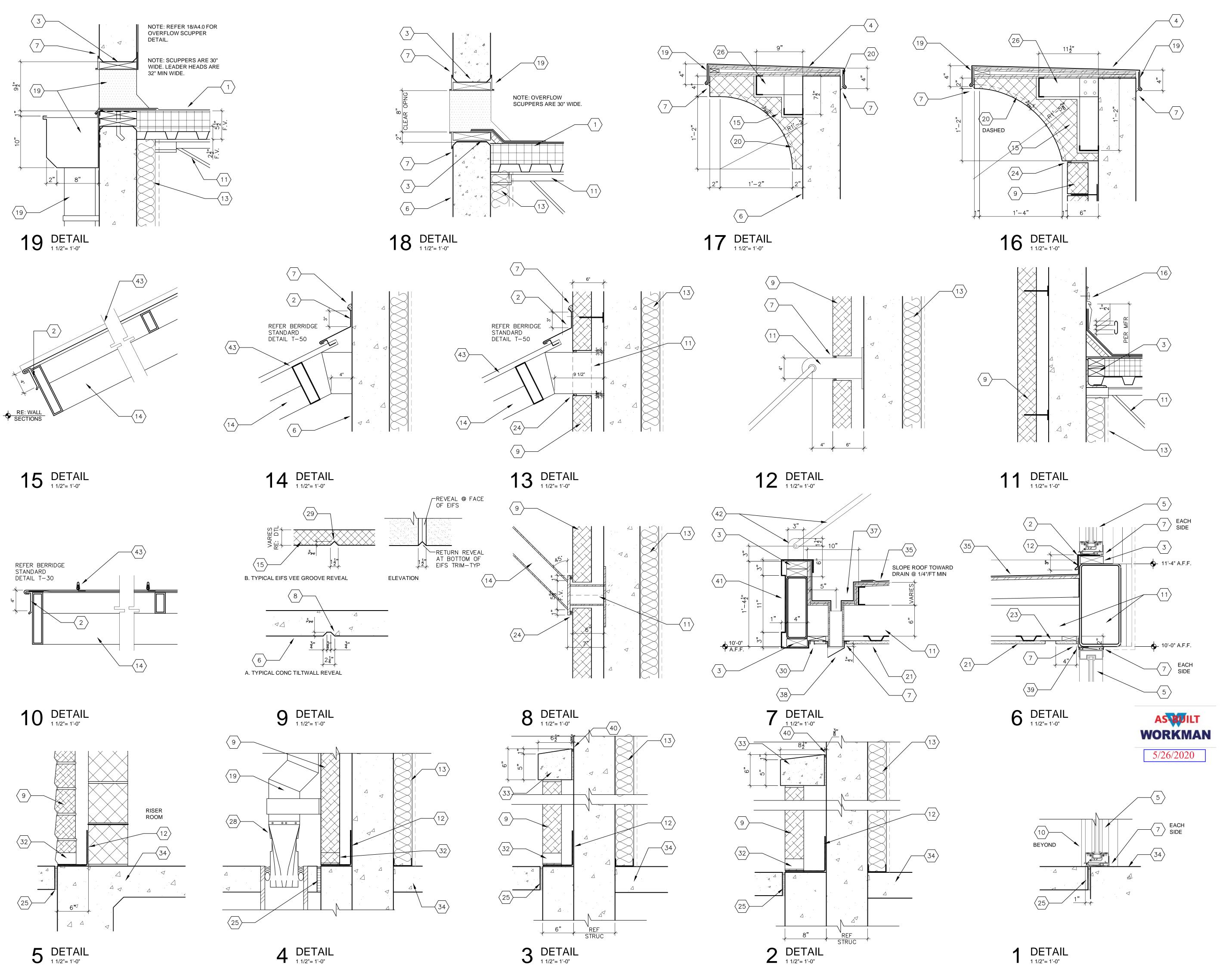
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WALL SECTIONS



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KEYED NOTES TO A4.0 & A4.1:

- SCHEDULED MODIFIED BITUMEN ROOF ON RIGID INSULATION ON
- METAL DECK. 24 GAUGE PREFINISHED METAL FLASHING. 2X TREATED WOOD BLOCKING.
- PREFINISHED MTL COPING ON #30 FELT ON 2 LAYERS 5/8" PLYWOOD W/ 1X WOOD SHIM. SLOPE TO REAR TO DRAIN.
- SCHEDULED STOREFRONT. TILT WALL PANEL W/ SCHEDULED COATING.
- CONC REVEAL. RE: SHEET A2.0, A2.1 & WALL SECTIONS FOR LOCATIONS.
- SCHEDULED MASONRY. OUTSIDE FACE OF CONC TILT WALL PANEL. SET EDGE OF FOUNDATION BACK AS INDICATED. REFER STRUC DWGS FOR
- ADDITIONAL INFORMATION. STEEL FRAMING. RE: STRUC DWGS.
- 12. SELF ADHERED MEMBRANE FLASHING—TYP. 13. 3 §", 26 GA MTL STUDS @ 24" OC FULL HEIGHT W/R-15
- BATT INSULATION.
- PAINTED STL CANOPY. PROVIDE ALL SUPPORT, BLOCKING, FASTENERS AND FLASHING FOR A COMPLETE INSTALLATION. REFER STRUC DRAWINGS FOR ADDITIONAL INFORMATION.
- 16. GALV SPRING LOCK FLASHING AND CONTINUOUS PRESSURE BAR. PREFINISHED MTL TEE-PANEL ROOF ON #30 FELT ON 5/8" EXT GRADE PLYWOOD SHEATHING ON MTL FRAMING. RE: STRUC DWGS
- PREFINISHED METAL SCUPPER, LEADER HEAD & DOWNSPOUT. REFER EXTERIOR ELEVATIONS FOR LOCATION. TIE TO UNDERGROUND STORM. RE: CIVIL DRAWINGS FOR ADDITIONAL
- 9. CONTINUOUS CLIP. NO EXPOSED FASTENERS. 20. EIFS REVEAL. RE: SHEET A2.0 & A2.1 FOR LOCATIONS.
- 21. EIFS BASE COAT & FINISH COAT ON 5/8" DENSCLASS SOFFIT ON 7" GALV HAT CHANNELS @ 16" OC MAX. COLOR TO MATCH DRYVIT #103, NATURAL WHITE.

PREFINISHED MTL TEE PANEL ON PAINTED STL FRAME, PAINT

- UNDERSIDE OF ROOF PANEL TO MATCH FRAME. 23. CONT VENT. FRY REGLET DCS-625-V-200.
- 24. BACKER ROD AND SEALANT. COLOR TO MATCH ADJACENT
- 25. 5/8" EXPANSION FILLER W/ PAVING SEALANT. 26. 3 5/8" 18 GA MTL STUDS @ 16" OC MAX.
- 27. FACE OF TILTWALL BEYOND (BUILDING LINE). 28. PREFINISHED MTL TRANSITION TO ROUND DRAIN PIPE. CUT DRAIN
- PIPE FLUSH W/ SIDEWALK. 29. VEE-GROOVE REVEAL. REFER EXTERIOR ELEVATIONS FOR
- 30. CONTINUOUS REVEAL AT PERIMETER (FRONT & SIDES). FRY
- REGLET FDM-625-150. SKIM COAT PLASTER WITH BLOCK FILLER OVER JOINTS ON CMU
- PRIOR TO TEXTURE COATING.
- 32. WEEPS @ 24" O.C. MAX.
- 33. CAST STONE. REFER SHEET A2.0. 34. CONC. FLOOR SLAB. RE: STRUC DWGS.
- 35. 60 MIL TPO ROOF ON 5/8" PLYWOOD DECK ON MTL FRAMING. 36. 1 1/2" EIFS ON 5/8" DENSGLASS ON 6" 18 GA MTL STUDS @
- 37. CONT. 24 GA. TPO COATED METAL GUTTER. 38. 3" DIA. PVC DOWNSPOUT THROUGH CANOPY. RE: SHEET A1.2
- FOR LOCATIONS. PROVIDE MTL RAIN DIVERTER ON END. PAINT
- TO MATCH SOFFIT.

 39. 2"X2" .070 ANOD ALUMINUM TRIM TO MATCH STOREFRONT ON TREATED WOOD BLOCKING.

 40. AT CAST STONE, RAKE JOINT 1" DEEP AND FILL WITH SEALANT.

 41. .070 ALUMINUM BREAK METAL. KYNAR FINISH AS SCHEDULED. CANOPY PROFILE TO MATCH EXISTING SHOPPING CENTER. COOR.
- 42. STEEL BRACKET AND TIE ROD-PAINT. RE: STRUC DWGS FOR ADDITIONAL INFORMATION.
 43. PREFINISHED MTL TEE-PANEL ROOF. PAINT UNDERSIDE.
 44. SCHEDULED LIGHT FIXTURE. RE: ELEC DWGS.
- 45. 1 $\frac{1}{2}$ " EIFS ON TILTWALL PANEL.
- 46. $\frac{3}{4}$ " EIFS ON $\frac{1}{2}$ " SHEATHING ON MTL TRUSS. RE: STRUC DWGS.
- "SHEATHING ON 6" 18 GA MTL STUDS.
 CONTINUE ROOF INSULATION INSIDE TOWER-TYP.
- 49. CONTINUOUS REVEAL ALL FOUR SIDE OF TOWER. FRY REGLET FDM-625-V-250. PAINT TO MATCH EIFS.

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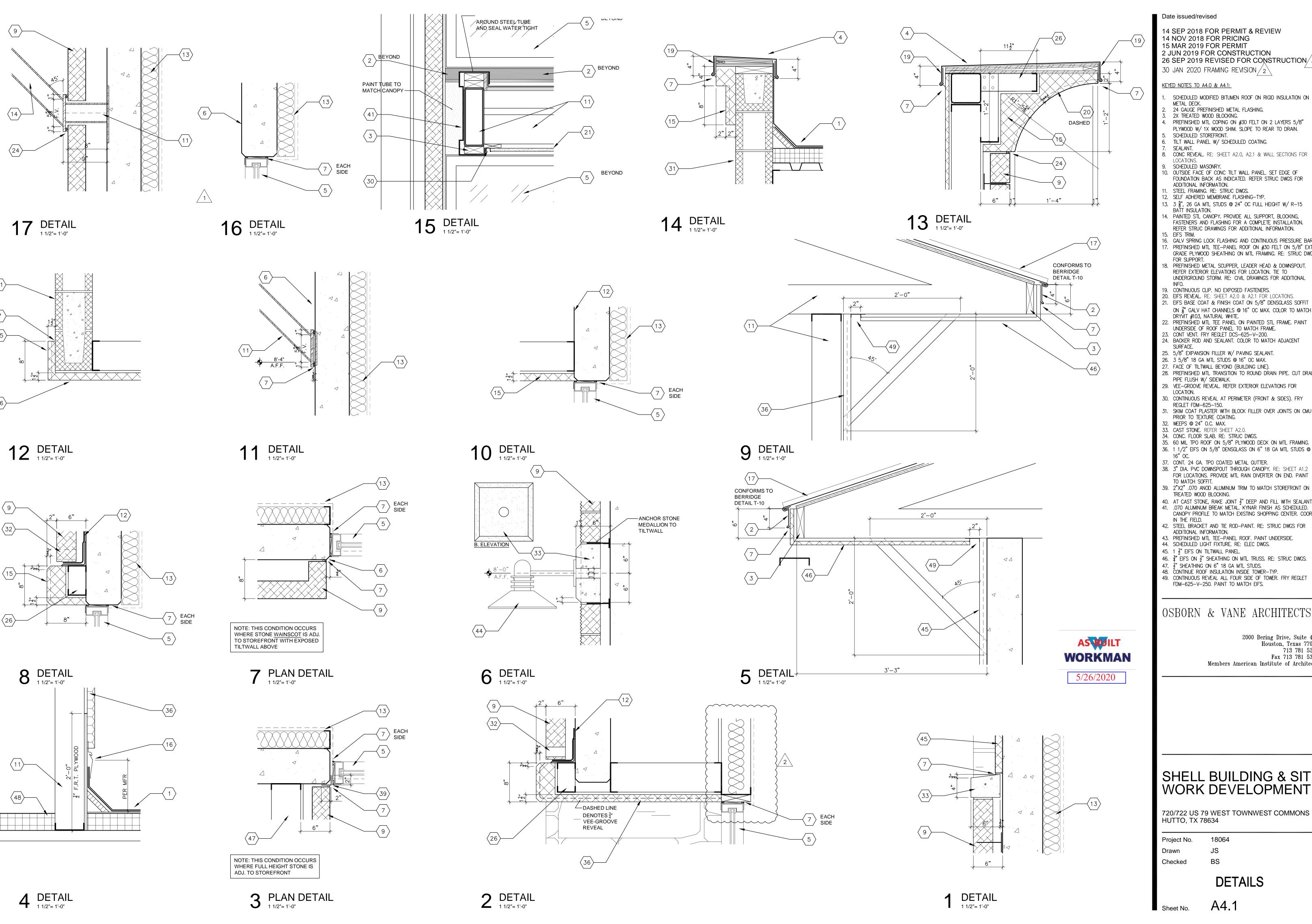
SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Drawn Checked

DETAILS

A4.0



14 SEP 2018 FOR PERMIT & REVIEW 14 NOV 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 2 JUN 2019 FOR CONSTRUCTION 26 SEP 2019 REVISED FOR CONSTRUCTION 1

KEYED NOTES TO A4.0 & A4.1:

- SCHEDULED MODIFIED BITUMEN ROOF ON RIGID INSULATION ON
- METAL DECK. 24 GAUGE PREFINISHED METAL FLASHING. 2X TREATED WOOD BLOCKING.
- PREFINISHED MTL COPING ON #30 FELT ON 2 LAYERS 5/8" PLYWOOD W/ 1X WOOD SHIM. SLOPE TO REAR TO DRAIN.
- SCHEDULED STOREFRONT. TILT WALL PANEL W/ SCHEDULED COATING.
- CONC REVEAL. RE: SHEET A2.0, A2.1 & WALL SECTIONS FOR LOCATIONS.
- SCHEDULED MASONRY. OUTSIDE FACE OF CONC TILT WALL PANEL. SET EDGE OF FOUNDATION BACK AS INDICATED. REFER STRUC DWGS FOR
- ADDITIONAL INFORMATION. STEEL FRAMING. RE: STRUC DWGS.
- 12. SELF ADHERED MEMBRANE FLASHING-TYP. 13. 3 §", 26 GA MTL STUDS @ 24" OC FULL HEIGHT W/R-15 BATT INSULATION.
- PAINTED STL CANOPY. PROVIDE ALL SUPPORT, BLOCKING, FASTENERS AND FLASHING FOR A COMPLETE INSTALLATION. REFER STRUC DRAWINGS FOR ADDITIONAL INFORMATION.
- 16. GALV SPRING LOCK FLASHING AND CONTINUOUS PRESSURE BAR. PREFINISHED MTL TEE-PANEL ROOF ON #30 FELT ON 5/8" EXT
- GRADE PLYWOOD SHEATHING ON MTL FRAMING. RE: STRUC DWGS PREFINISHED METAL SCUPPER, LEADER HEAD & DOWNSPOUT. REFER EXTERIOR ELEVATIONS FOR LOCATION. TIE TO
- UNDERGROUND STORM. RE: CIVIL DRAWINGS FOR ADDITIONAL 9. CONTINUOUS CLIP. NO EXPOSED FASTENERS. 20. EIFS REVEAL. RE: SHEET A2.0 & A2.1 FOR LOCATIONS.
- 21. EIFS BASE COAT & FINISH COAT ON 5/8" DENSGLASS SOFFIT ON 7 GALV HAT CHANNELS @ 16" OC MAX. COLOR TO MATCH DRYNT #103, NATURAL WHITE.
- 2. PREFINISHED MTL TEE PANEL ON PAINTED STL FRAME. PAINT UNDERSIDE OF ROOF PANEL TO MATCH FRAME. 23. CONT VENT. FRY REGLET DCS-625-V-200.
- 24. BACKER ROD AND SEALANT. COLOR TO MATCH ADJACENT
- 25. 5/8" EXPANSION FILLER W/ PAVING SEALANT.
- 26. 3 5/8" 18 GA MTL STUDS @ 16" OC MAX. 27. FACE OF TILTWALL BEYOND (BUILDING LINE).
- 28. PREFINISHED MTL TRANSITION TO ROUND DRAIN PIPE. CUT DRAIN PIPE FLUSH W/ SIDEWALK.
- 29. VEE-GROOVE REVEAL. REFER EXTERIOR ELEVATIONS FOR
- 30. CONTINUOUS REVEAL AT PERIMETER (FRONT & SIDES). FRY REGLET FDM-625-150.
- SKIM COAT PLASTER WITH BLOCK FILLER OVER JOINTS ON CMU
- PRIOR TO TEXTURE COATING. 32. WEEPS @ 24" O.C. MAX.
- 33. CAST STONE. REFER SHEET A2.0.
- 34. CONC. FLOOR SLAB. RE: STRUC DWGS. 35. 60 MIL TPO ROOF ON 5/8" PLYWOOD DECK ON MTL FRAMING.
- 37. CONT. 24 GA. TPO COATED METAL GUTTER.
- 38. 3" DIA. PVC DOWNSPOUT THROUGH CANOPY. RE: SHEET A1.2 FOR LOCATIONS. PROVIDE MTL RAIN DIVERTER ON END. PAINT
- TO MATCH SOFFIT.

 39. 2"X2" .070 ANOD ALUMINUM TRIM TO MATCH STOREFRONT ON TREATED WOOD BLOCKING.
- 40. AT CAST STONE, RAKE JOINT $\frac{1}{2}$ " DEEP AND FILL WITH SEALANT. 41. .070 ALUMINUM BREAK METAL. KYNAR FINISH AS SCHEDULED.
- CANOPY PROFILE TO MATCH EXISTING SHOPPING CENTER. COOR.
- 42. STEEL BRACKET AND TIE ROD-PAINT. RE: STRUC DWGS FOR ADDITIONAL INFORMATION.
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- 44. SCHEDULED LIGHT FIXTURE. RE: ELEC DWGS.
- 45. 1 3" EIFS ON TILTWALL PANEL.
- 46. $\frac{3}{4}$ " EIFS ON $\frac{1}{2}$ " SHEATHING ON MTL TRUSS. RE: STRUC DWGS. The strathing on 6" 18 GA MTL STUDS.
- CONTINUE ROOF INSULATION INSIDE TOWER-TYP.
- 49. CONTINUOUS REVEAL ALL FOUR SIDE OF TOWER. FRY REGLET FDM-625-V-250. PAINT TO MATCH EIFS.

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SHELL BUILDING & SITE WORK DEVELOPMENT

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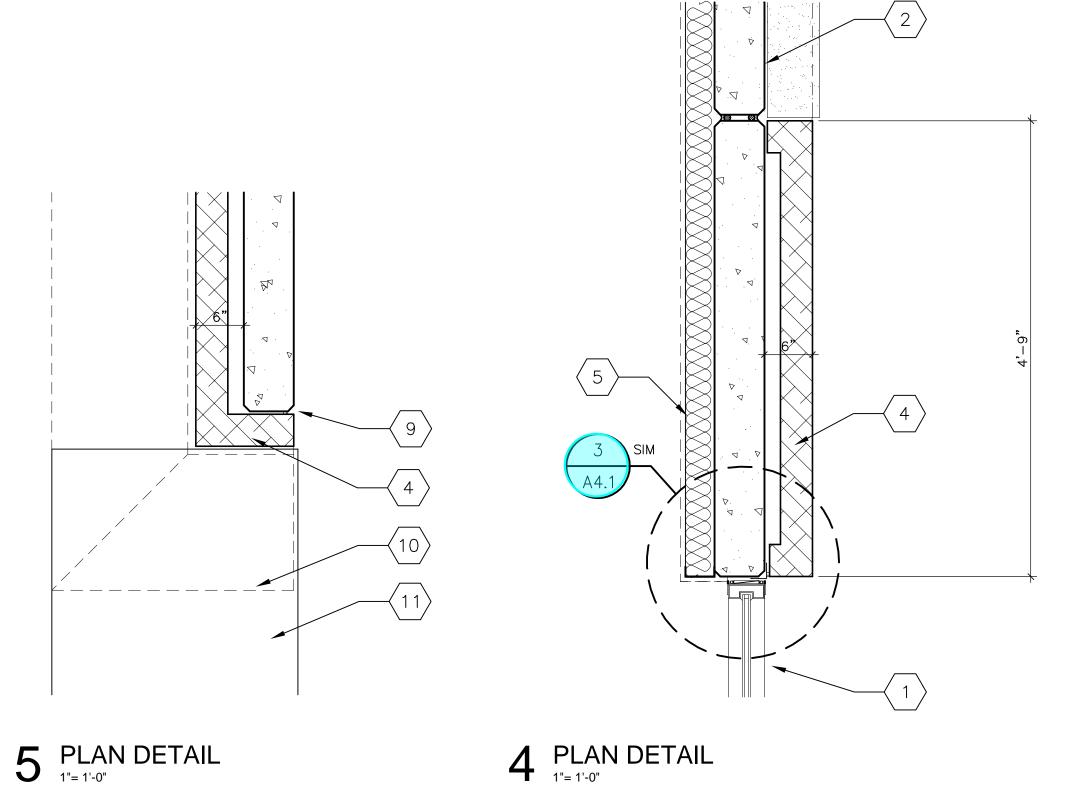
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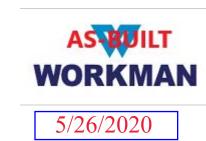
A4.1 Sheet No.

14 SEP 2018 FOR PERMIT & REVIEW 14 NOV 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION

KEYED NOTES TO A4.2:

- 1. SCHEDULED STOREFRONT.
- TILT WALL PANEL W/ SCHEDULED COATING.
 SEALANT.
- SCHEDULED MASONRY.
- 5. 3 §", 26 GA MTL STUDS @ 24" OC FULL HEIGHT W/R-15 BATT INSULATION.
- 6. ANODIZED ALUM CLAD STL CANOPY. PROVIDE ALL SUPPORT, BLOCKING, FASTENERS AND FLASHING FOR A COMPLETE INSTALLATION. REFER STRUC DRAWINGS FOR ADDITIONAL INFORMATION.
- 7. 60 MIL TPO ROOF ON 5/8" PLYWOOD DECK ON MTL FRAMING.
- 8. \(\frac{1}{8}\) SHEATHING ON 6" 18 GA MTL STUDS \(\Phi\) 16" OC MAX 9. BACKER ROD & SEALANT. COLOR TO MATCH MASONRY.
- 10. LINE OF CORNICE ABOVE (DASHED).11. CORNICE BELOW.





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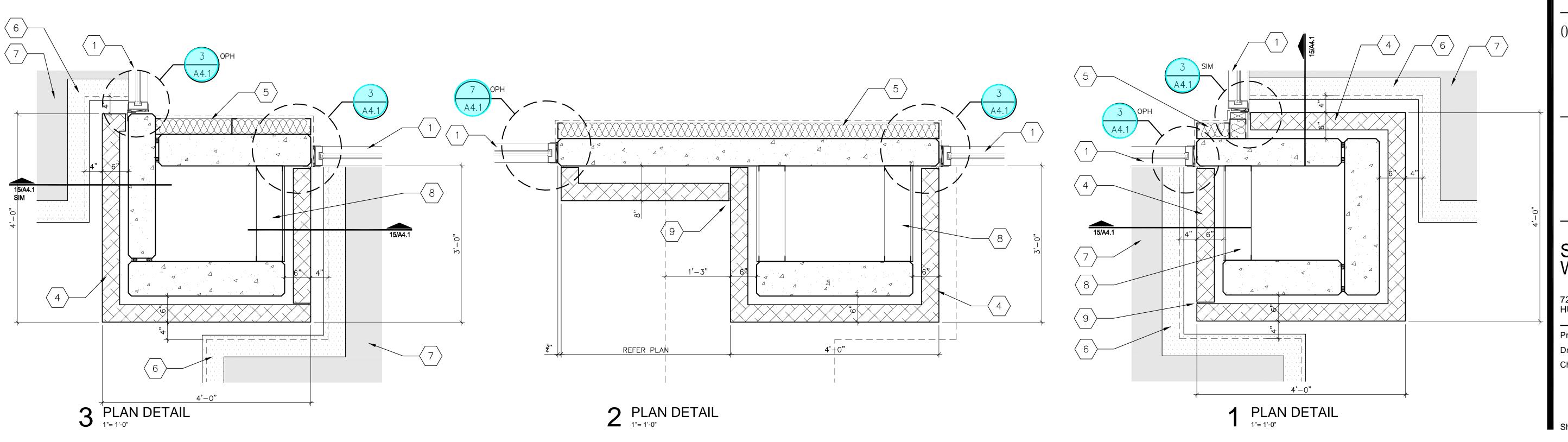
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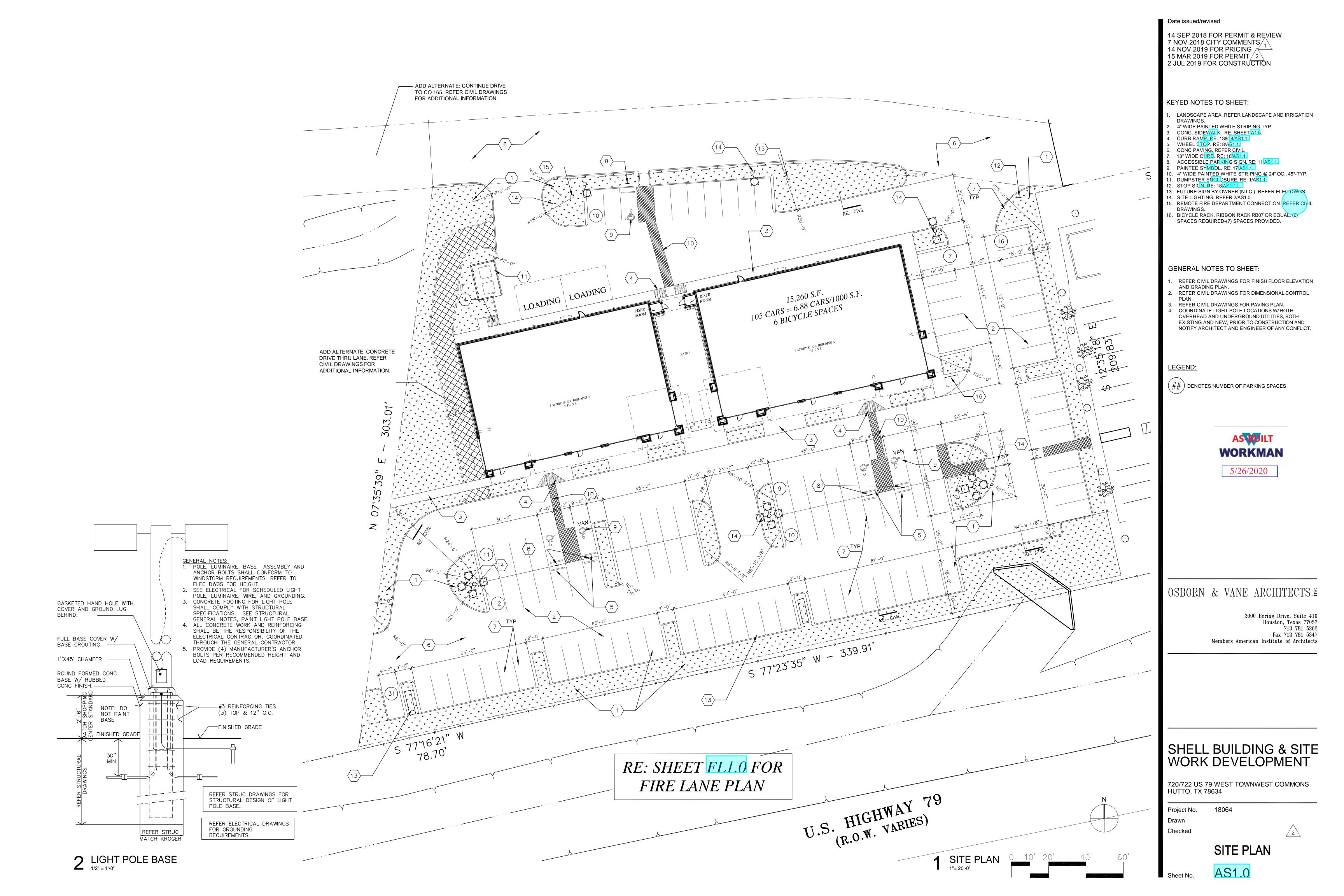
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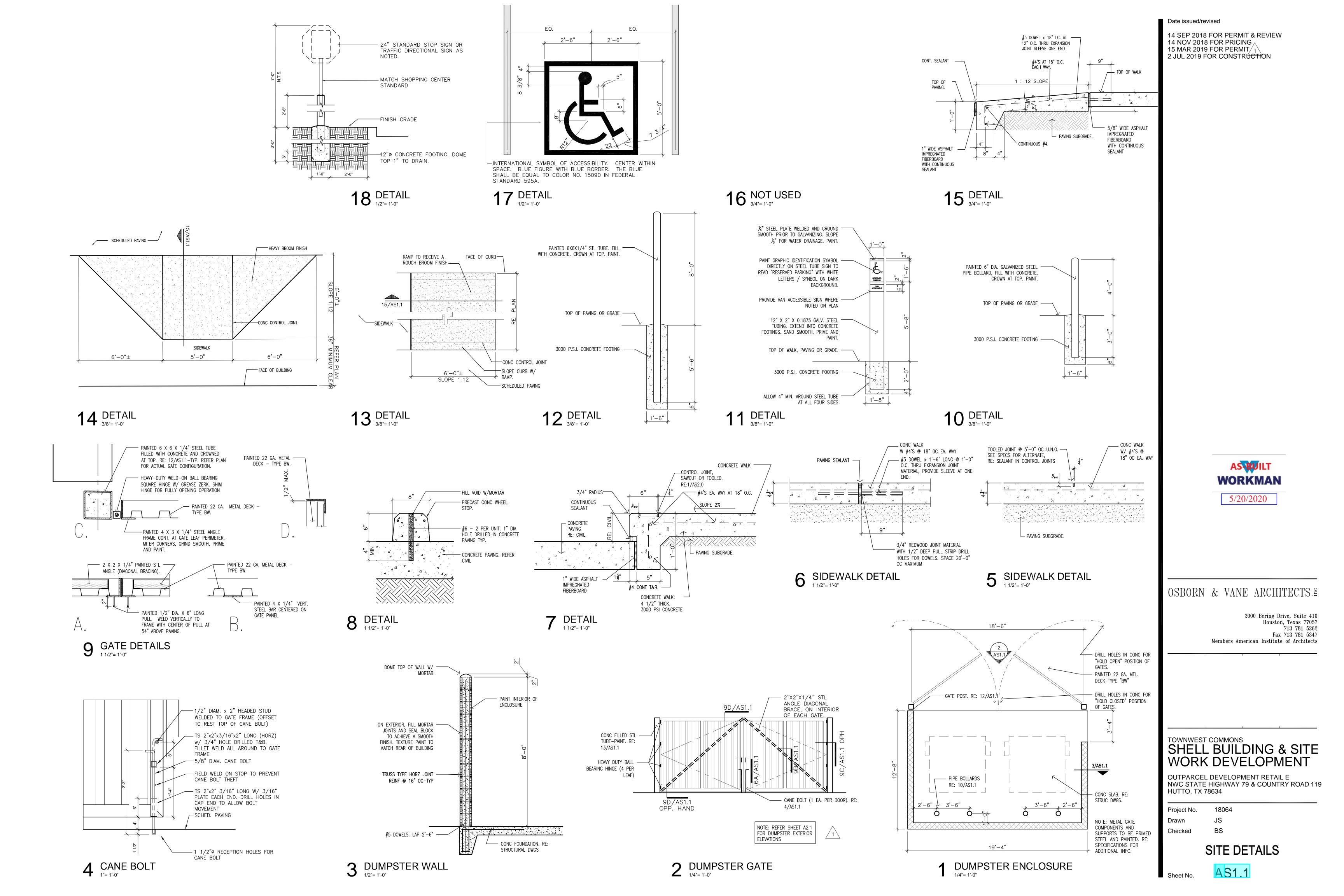
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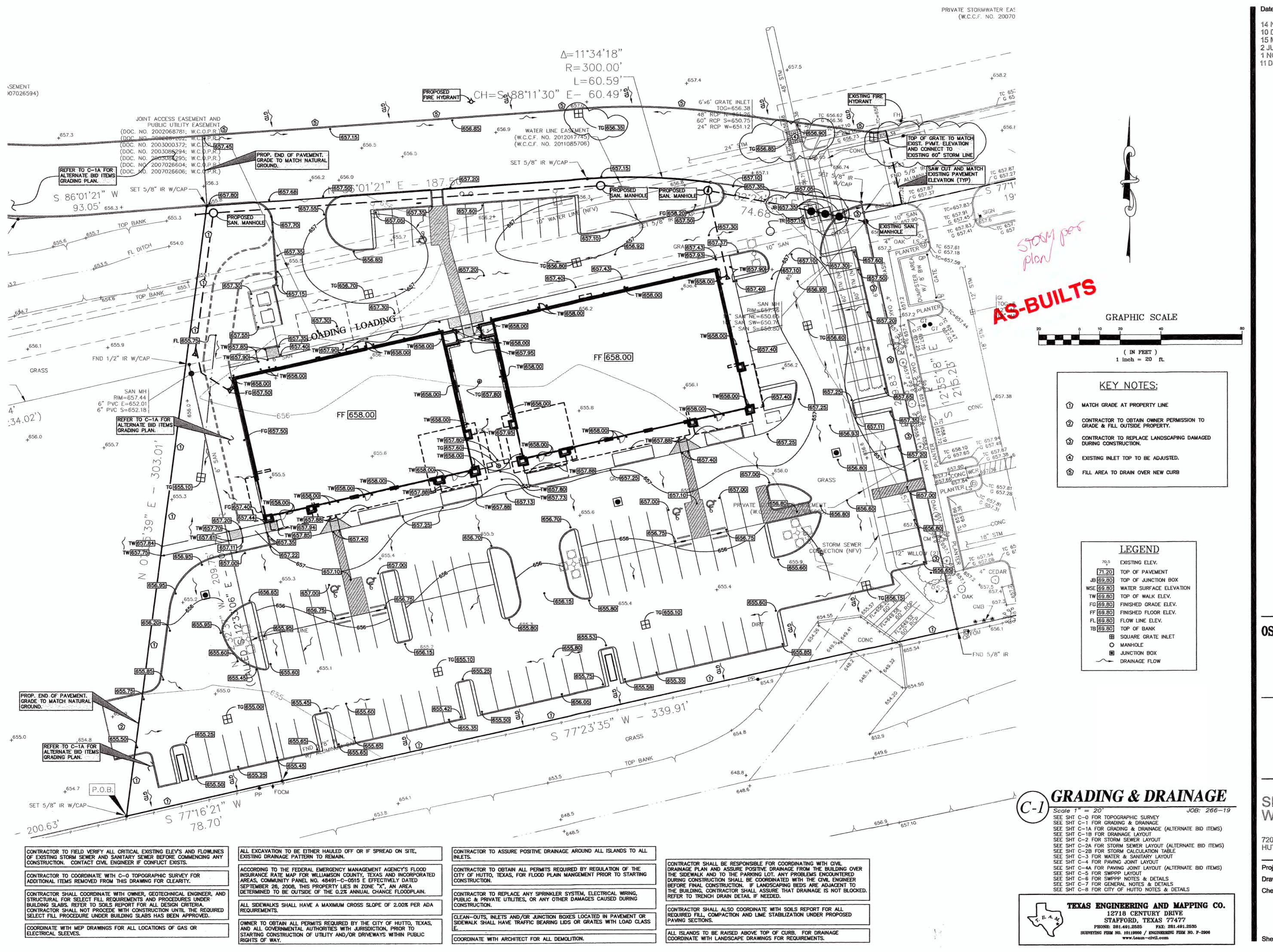
DETAILS

A4.2









14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION 1 NOV 2019 BULLETIN #4 11 DEC 2019 INLET ADDITION

AS BUILT WORKMAN

5/26/2020

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SHELL BUILDING & SITE WORK DEVELOPMENT

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14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION



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GRADING & DRAINAGE ALTERNATE BID ITEMS SHELL BUILDING & SITE WORK DEVELOPMENT

Scale 1" = 20' Scale 1" = 20'

SEE SHT C-0 FOR TOPOGRAPHIC SURVEY
SEE SHT C-1 FOR GRADING & DRAINAGE
SEE SHT C-1A FOR GRADING & DRAINAGE (ALTERNATE BID ITEMS)
SEE SHT C-1B FOR DRAINAGE LAYOUT
SEE SHT C-2 FOR STORM SEWER LAYOUT
SEE SHT C-2A FOR STORM SEWER LAYOUT (ALTERNATE BID ITEMS)
SEE SHT C-2B FOR STORM CALCULATION TABLE
SEE SHT C-3 FOR WATER & SANITARY LAYOUT

GRAPHIC SCALE

(IN FEET) 1 inch = 20 ft.

LEGEND

EXISTING ELEV.

71.20 TOP OF PAVEMENT JB 69.80 TOP OF JUNCTION BOX WSE 69.80 WATER SURFACE ELEVATION

TW 69.80 TOP OF WALK ELEV.

FL 69.80 FLOW LINE ELEV. TB 69.80 TOP OF BANK

O MANHOLE

DRAINAGE FLOW

JUNCTION BOX

FF 69.80

FG 69.80 FINISHED GRADE ELEV.

FINISHED FLOOR ELEV.

B SQUARE GRATE INLET

KEY NOTES:

SEE SHT C-3 FOR WATER & SANITARY LAYOUT SEE SHT C-4 FOR PAVING JOINT LAYOUT SEE SHT C-4A FOR PAVING JOINT LAYOUT (ALTERNATE BID ITEMS)
SEE SHT C-5 FOR SWPPP LAYOUT
SEE SHT C-6 FOR SWPPP NOTES & DETAILS
SEE SHT C-7 FOR GENERAL NOTES & DETAILS

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SEE SHT C-8 FOR CITY OF HUTTO NOTES & DETAILS



TEXAS ENGINEERING AND MAPPING CO.

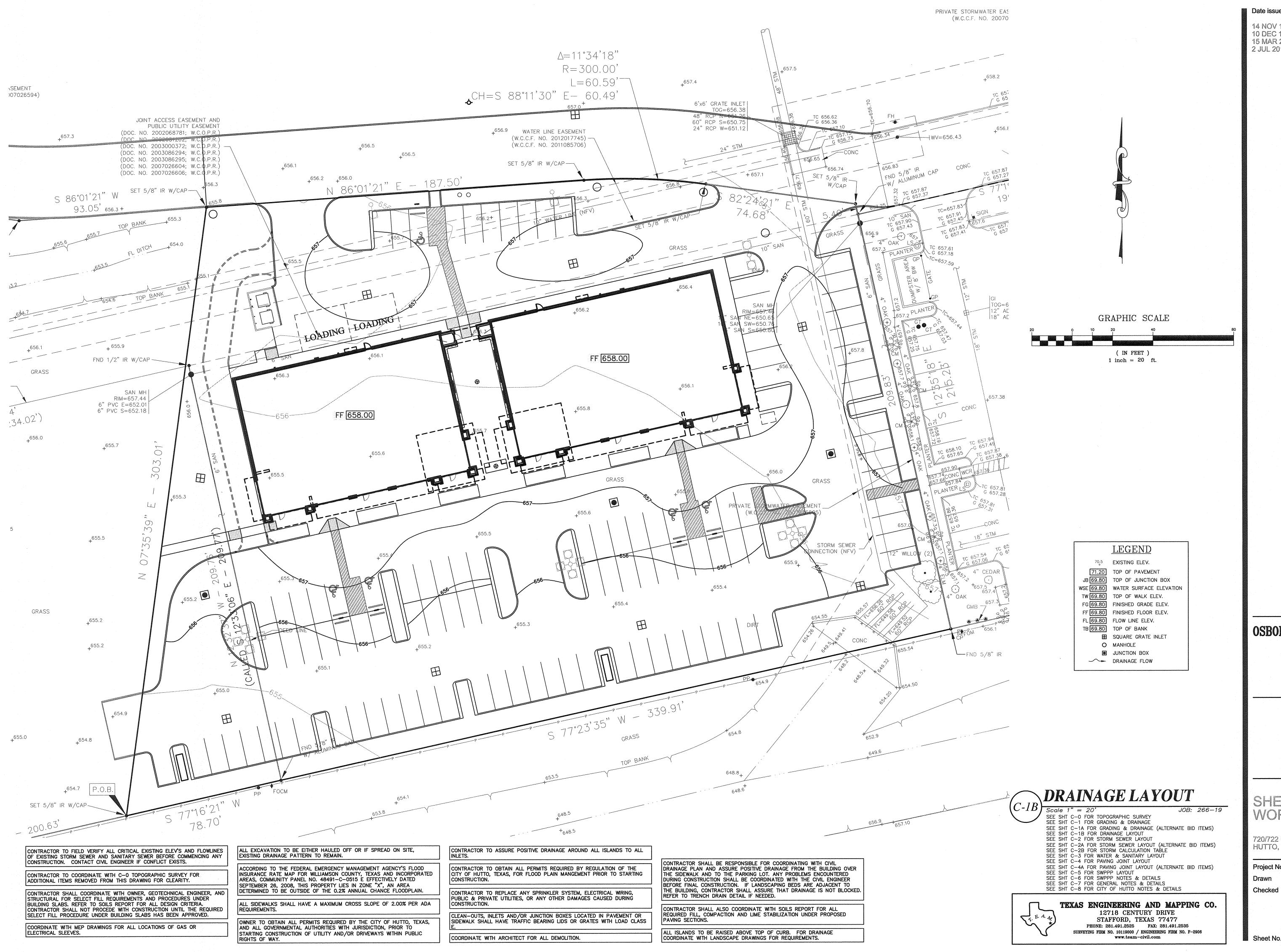
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STAFFORD, TEXAS 77477

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HUTTO, TX 78634

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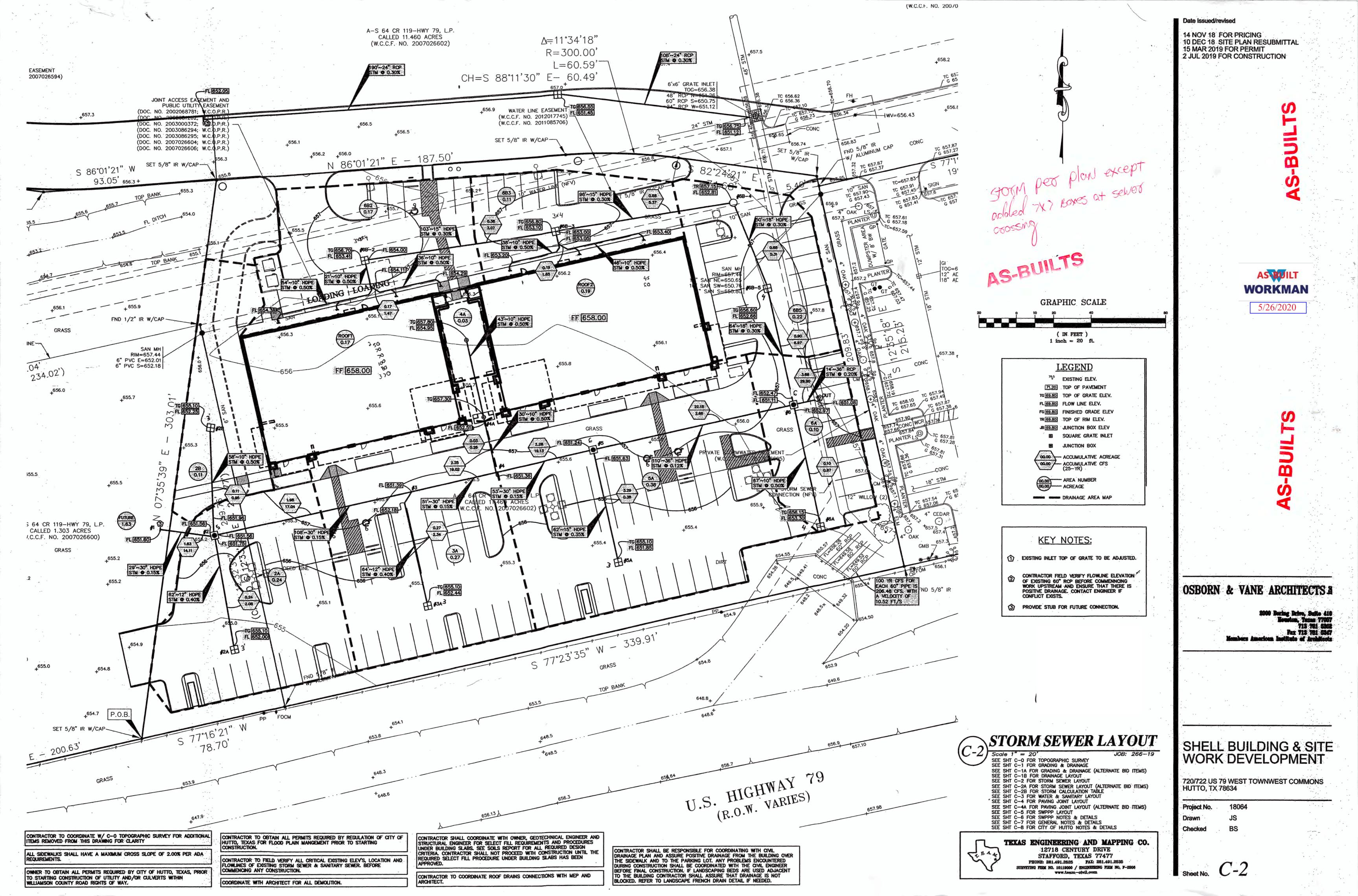


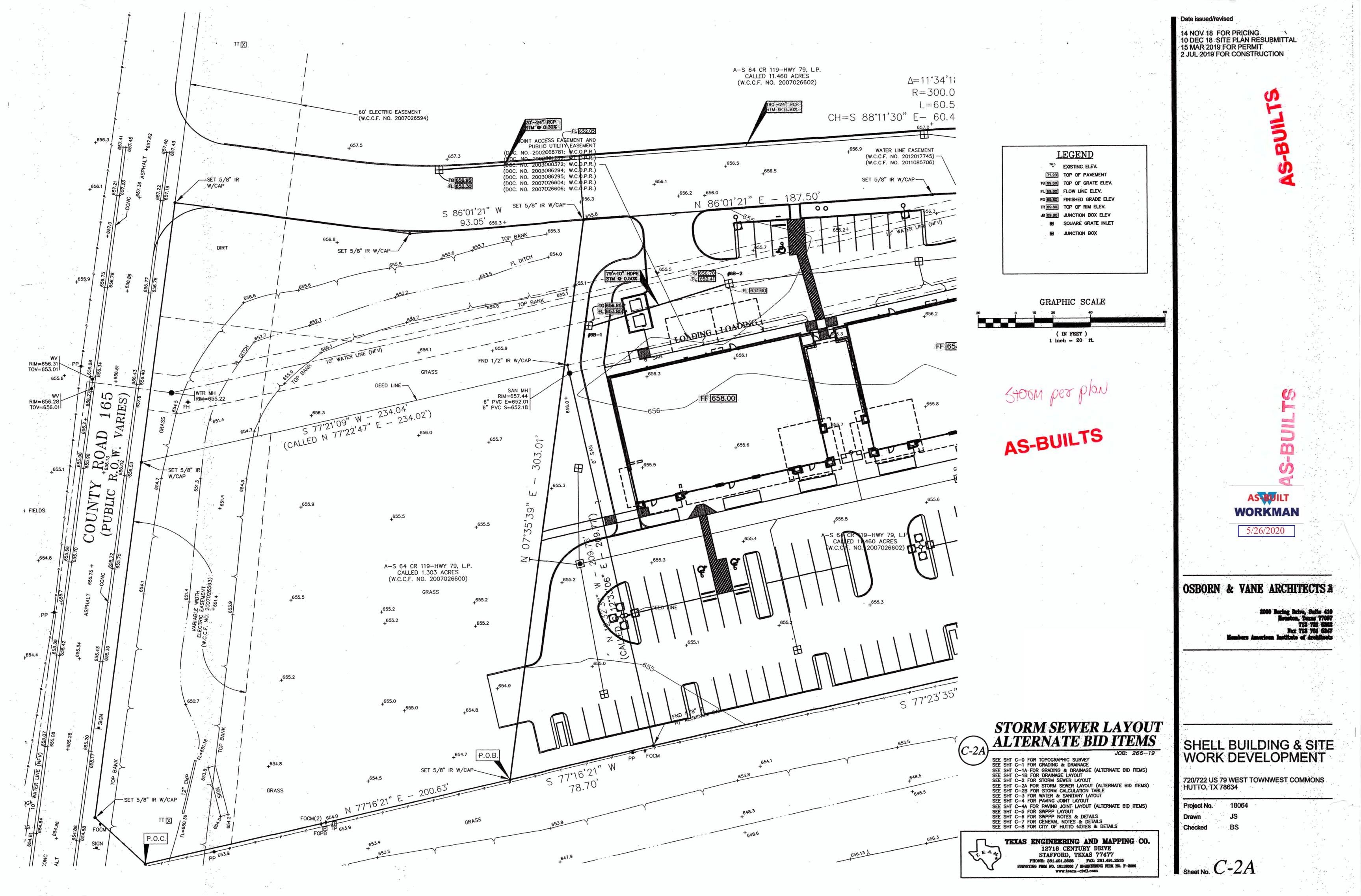
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SHELL BUILDING & SITE WORK DEVELOPMENT

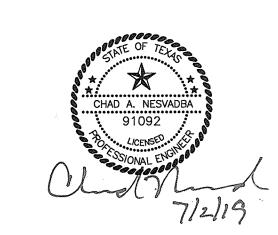
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| 3A | en signe en e | 3A | 0.27 | 0.27 | 0.88 | 0.238 | 9.839 | 2.34 | 5.00 | 0.358 | 34 64 | 12 | 0.785 | 4 0.2 | 25 0.40 | 0.011 | 2.663 | 3.391 | 0.256 | 0.00 | 652.44 | 653.44 | 652.18 | 653.18 | 2.977 | 0.4314 | 0.2761 | 0.0688 | 653.53 | 653.18 | 1.09 | 24 | 1.40 | 655.10 | 657.05 | 1.66 | 3.87 | -1.57 | |
| 4A | 4 | | 0.03 | 0.03 | 0.88 | 0.026 | 9.839 | 0.26 | 5.00 | 1.049 | 99 30 | 10 | 0.545 | 4 0.20 | 0.50 | 0.011 | 1.831 | 3.357 | ' 0.15 | 0.00 | 652.51 | 653.34 | 652.36 | 653.19 | 0.476 | 0.0141 | 0.0042 | 0.0018 | 653.20 | 653.19 | 0.12 | 24 | 1.40 | 657.30 | 656.95 | 3.96 | 3.76 | -4.10 | |
| 54 | 5 | | 0.38 | | 0.88 | 0.334 | 9.839 | 3.29 | 5.00 | 0.385 | 54 62 | 15 | 1.227 | 2 0.31 | 25 0.35 | 0.011 | 4.517 | 3.680 | 0.217 | 0.00 | 651.85 | 653.10 | 651.63 | 652.88 | 2.681 | 0.2599 | 0.1611 | 0.0558 | 653.10 | 652.88 | 1.53 | 24 | 1.40 | 655.10 | 656.90 | 2.00 | 4.02 | -2.00 | andreas and real residence of the second residence of |
| | | 6A | 0.10 | sacrama v regionisme menoscens de la filia | uren one and an order of the second of the s | | | | | | | 10 | 0.545 | 4 0.20 | 0.50 | 0.011 | 1.831 | 3.357 | 0.335 | 0.00 | 653.30 | 654.13 | 652.97 | 653.80 | 1.588 | 0.1565 | 0.1048 (| 0.0196 | 653.92 | 653.80 | 0.40 | 24 | 1.40 | 656.15 | 656.92 | 2.02 | 3.12 | -2.23 | - |
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| 6B2 | 6B3 | 6B2 | 0.17 | or contract contract contract of the contract | 0.88 | 0.334 | and the second second second second second | 3.07 | | ond warm of institute and telepole at mediate wil | 35 103 | 4 | 1.227 | | | | | 3.407 | | | 653.41 | | 653.10 | 654.35 | 2.501 | 0.2261 | 0.2329 (0.6654 (| | 655.80 | 655.52 654.71 | 0.64 | 24 | 1.40 1.40 | 656.70 656.80 | 656.80 656.55 | 2.05 2.45 | 2.45 2.49 | -0.90 -1.28 | |
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| 6B5 | | 6B5 | 0.22 | บ.ชบ | Ų. 0 0 | 0.792 | 0.803 | 0.97 | 0.40 | 0.27 | J+ 04 | 10 | 1.707 | 1 0.37 | . 0.30 | 0.011 | 0.000 | J.040 |) U.132 | U.UU | JJZ.UU gradien vertien aan help as te derildele de vertie | JUH. IU | JUL.**1 | 000.01 | J.273 | V.TT13 | J. 2020 | J. 1200 | OOT.OI | | J. 1 J | — -T | 1TU | | | | | | |
| 6C1 | 6C | occeptional and current is greater to be considered to the collection of the collect | 0.17 | 0.17 | 0.88 | 0.150 | 9.839 | 1.47 | 5.00 | 0.129 | 97 21 | 10 | 0.545 | 64 0.20 | 0.50 | 0.011 | 1.831 | 3.357 | 7 0.105 | 0.00 | 652.10 | 652.93 | 652.00 | 652.83 | 2.699 | 0.4522 | 0.095 | 0.0565 | 655.67 | 655.52 | 0.68 | 24 | 1.40 | 656.95 | 656.55 | 4.02 | 3.72 | -1.28 | |
| 6D1 | 6D | 6D1 | 0.19 | 0.19 | 0.88 | 0.167 | 9.839 | 1.65 | 5.00 | 0.033 | 32 6 | 10 | 0.545 | 64 0.20 | 0.50 | 0.011 | 1.831 | 3.357 | 0.03 | 0.00 | 651.52 | 652.35 | 651.49 | 652.32 | 3.016 | 0.5648 | 0.0339 (| 0.0706 | 654.81 | 654.71 | 0.76 | 24 | 1.40 | 657.02 | 656.55 | 4.67 | 4.23 ************************************ | -2.21 | |
| 6D1 | 6D | | 0.19 | | elemente de la literación e que termente de liberación de escribir de la companya de la companya de la company La companya de la co | | | onación de transferior o certa o constante | and the second s | | | tion - to the first and over the end to be and the electric transfer and transfer and the electric transfer and transfer a | an ann an an Talanta. Talanta an | and the second s | 5 0.30 | ta ta talan a sanat sa anda ta talan anda anda anda anda anda anda anda | 12.391 | t territoria de la compansión de la comp | | | | 653.52 | 650.63 | 652.63 | 0.524 | 0.0053 | aanaanininteele kantiiseen en | enterente en etro e control de entre en entre establica de la companya de la companya de la companya de la comp La companya de la co | 654.77 | 654.75 | 0.76 | 24 | 1.40 | | 656.55 | | and transmission of the section of t | -2.25 | -1 |



STORM SEWER

C-2B CALCULATION TABLE

Scale 1" = 20'

SEE SHT C-0 FOR TOPOGRAPHIC SURVEY
SEE SHT C-1 FOR GRADING & DRAINAGE
SEE SHT C-1A FOR GRADING & DRAINAGE (ALTERNATE BID ITEMS)
SEE SHT C-1B FOR DRAINAGE LAYOUT
SEE SHT C-2 FOR STORM SEWER LAYOUT
SEE SHT C-2A FOR STORM SEWER LAYOUT (ALTERNATE BID ITEMS)

SEE SHT C-2 FOR STORM SEWER LAYOUT
SEE SHT C-2A FOR STORM SEWER LAYOUT (ALTERNATE BID ITEMS)
SEE SHT C-2B FOR STORM CALCULATION TABLE
SEE SHT C-3 FOR WATER & SANITARY LAYOUT
SEE SHT C-4 FOR PAVING JOINT LAYOUT
SEE SHT C-4A FOR PAVING JOINT LAYOUT (ALTERNATE BID ITEMS)
SEE SHT C-5 FOR SWPPP LAYOUT
SEE SHT C-6 FOR SWPPP NOTES & DETAILS
SEE SHT C-7 FOR GENERAL NOTES & DETAILS
SEE SHT C-8 FOR CITY OF HUTTO NOTES & DETAILS



TEXAS ENGINEERING AND MAPPING CO.
12718 CENTURY DRIVE STAFFORD, TEXAS 77477

PHONE: 281.491.2525 FAX: 281.491.2535 SURVEYING FIRM NO. 10119000 / ENGINEERING FIRM NO. F-2906

Date issued/revised

14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION

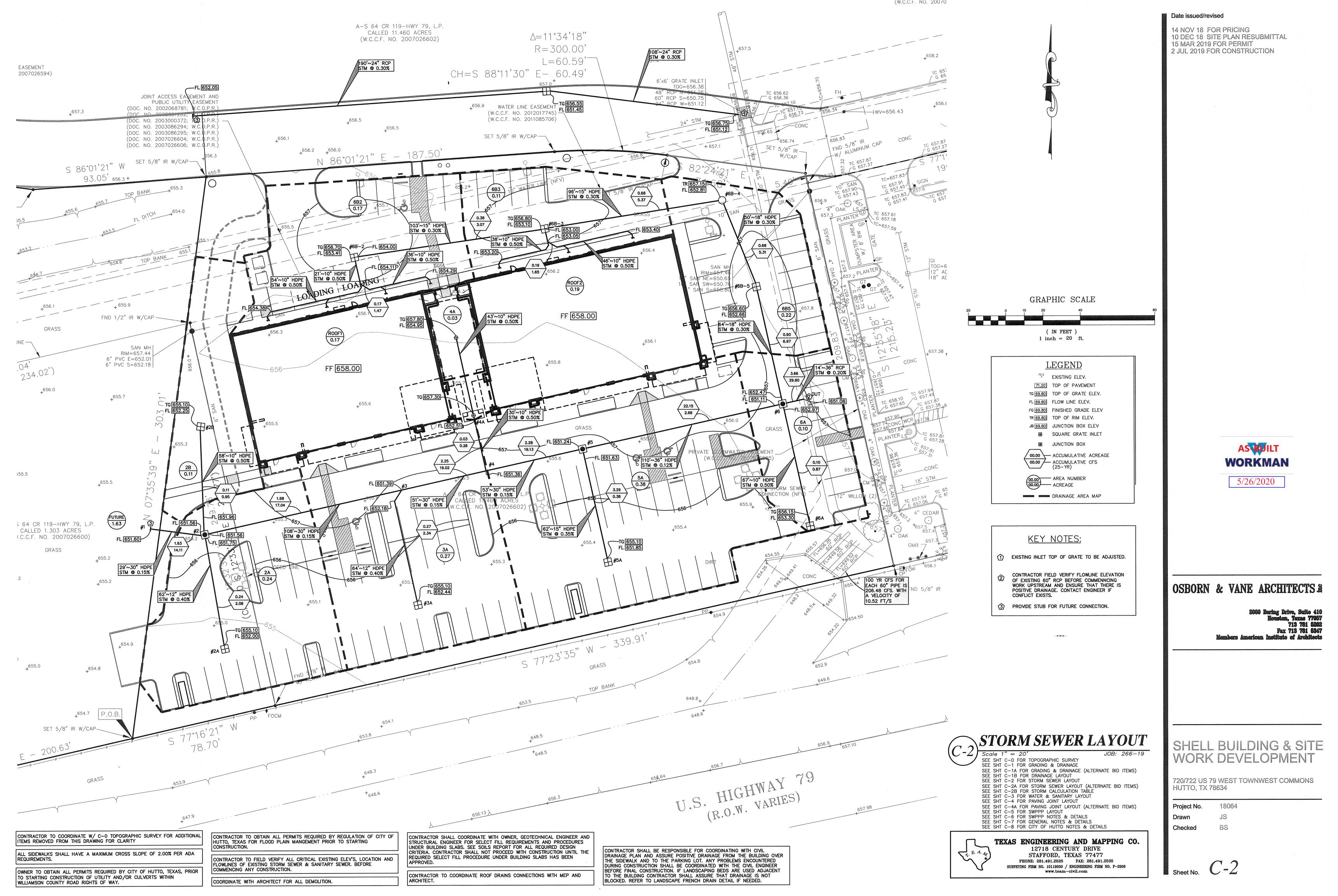
OSBORN & VANE ARCHITECTS #

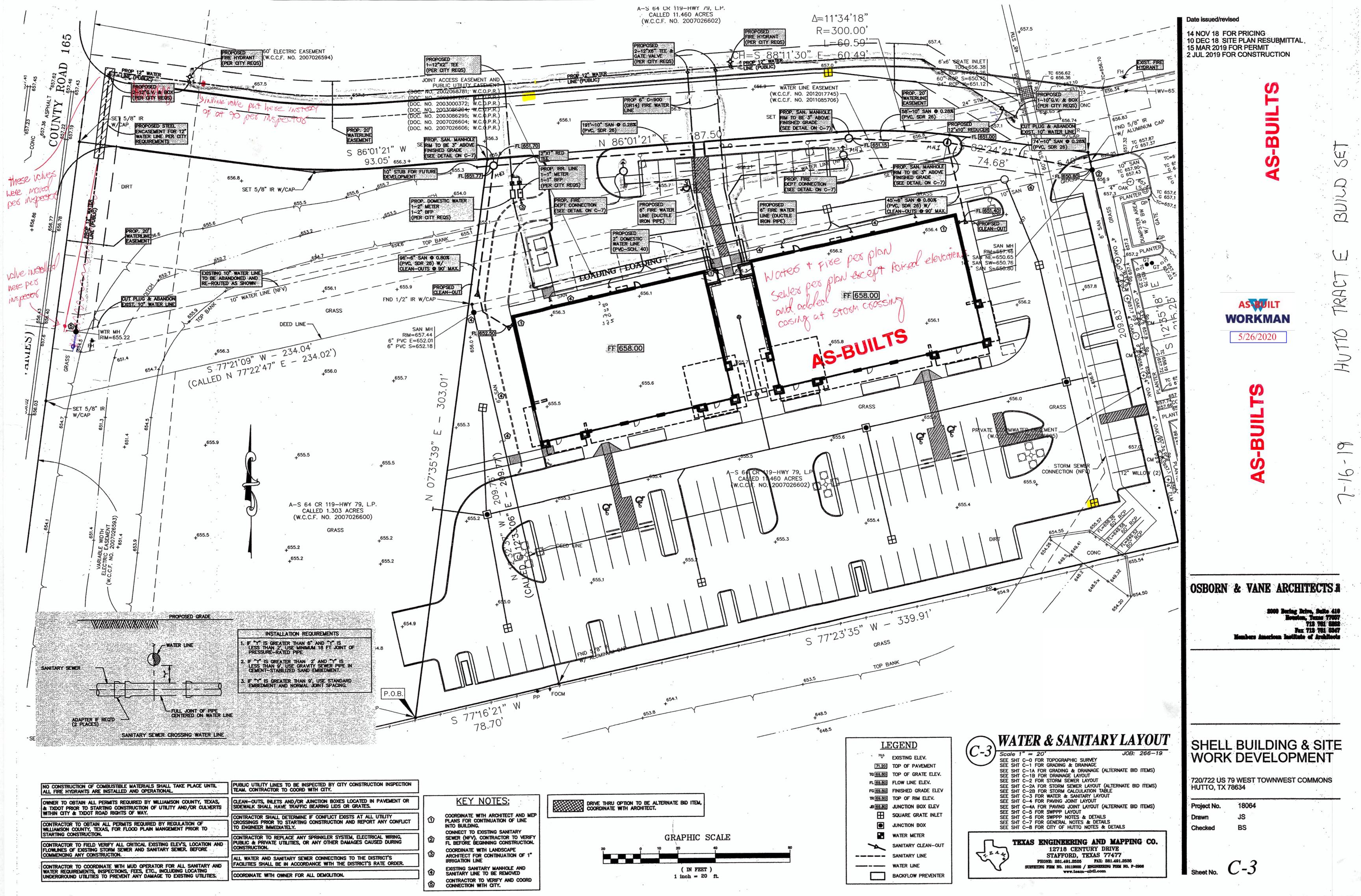
SHELL BUILDING & SITE WORK DEVELOPMENT

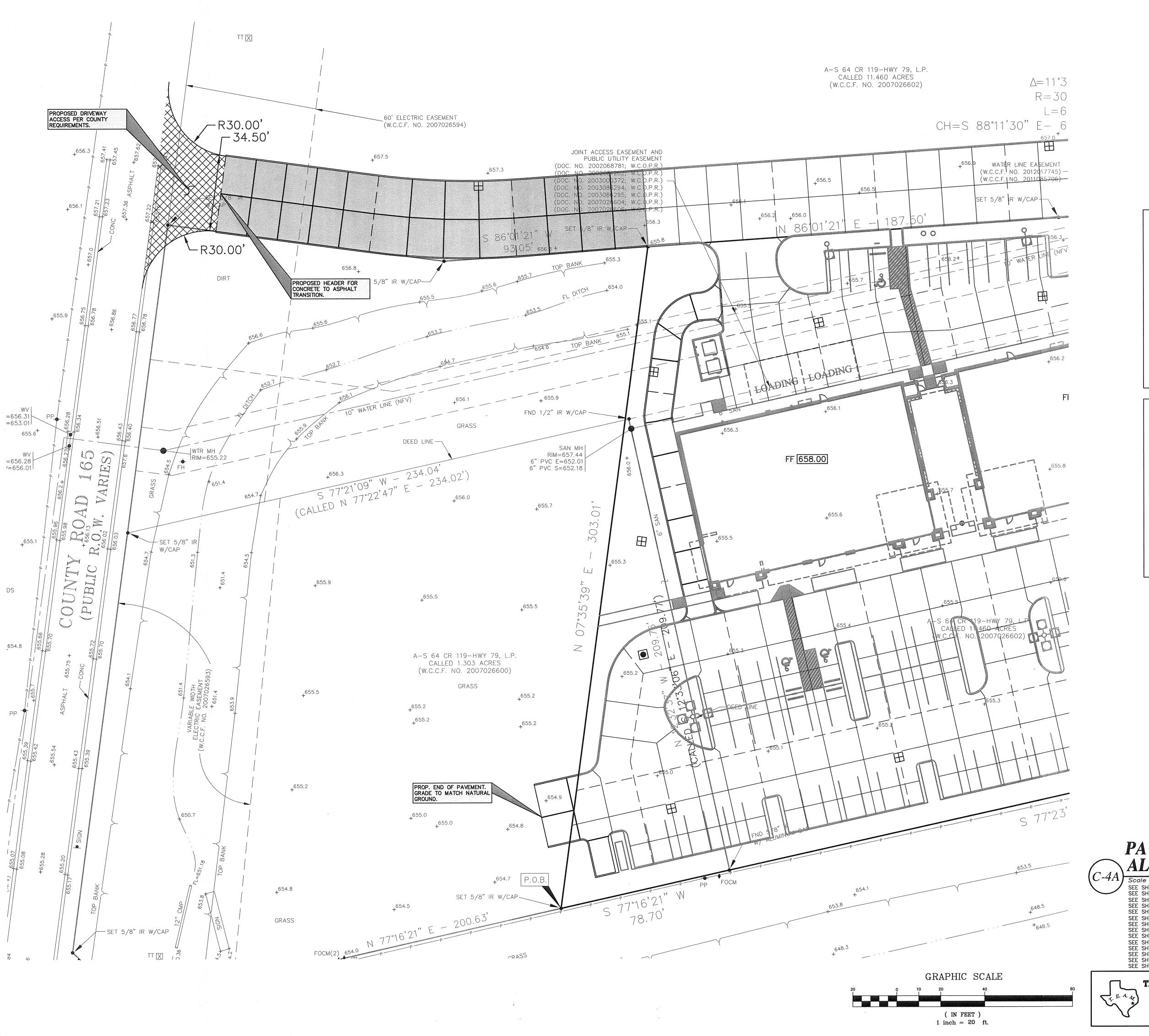
720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

18064 Project No.

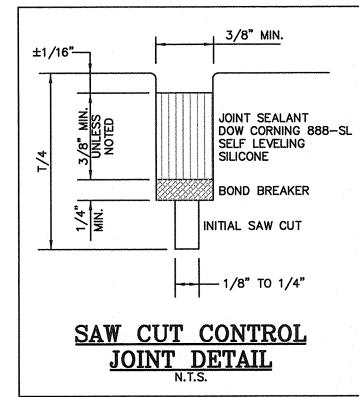
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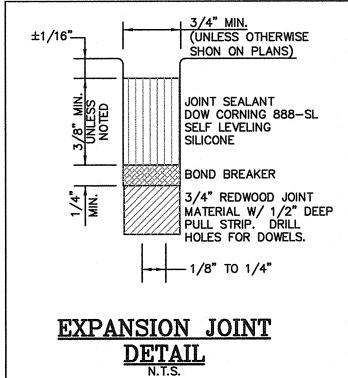


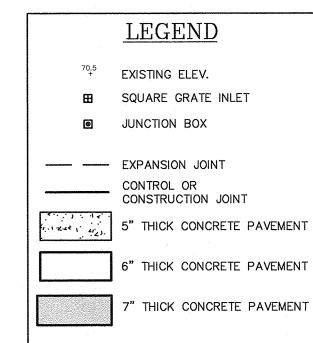












PAVING JOINT LAYOUT ALTERNATE BID ITEMS

 $(C-4A)^{\frac{2}{\text{Scale 1"}}} = 20'$ JOB: 266-19 SEE SHT C-0 FOR TOPOGRAPHIC SURVEY
SEE SHT C-1 FOR GRADING & DRAINAGE
SEE SHT C-1A FOR GRADING & DRAINAGE (ALTERNATE BID ITEMS) SEE SHT C-1B FOR DRAINAGE LAYOUT SEE SHT C-2 FOR STORM SEWER LAYOUT SEE SHT C-2A FOR STORM SEWER LAYOUT (ALTERNATE BID ITEMS)

SEE SHT C-2B FOR STORM CALCULATION TABLE SEE SHT C-3 FOR WATER & SANITARY LAYOUT SEE SHT C-4 FOR PAVING JOINT LAYOUT SEE SHT C-4A FOR PAVING JOINT LAYOUT (ALTERNATE BID ITEMS) SEE SHT C-5 FOR SWPPP LAYOUT

SEE SHT C-6 FOR SWPPP NOTES & DETAILS SEE SHT C-7 FOR GENERAL NOTES & DETAILS SEE SHT C-8 FOR CITY OF HUTTO NOTES & DETAILS



TEXAS ENGINEERING AND MAPPING CO. 12718 CENTURY DRIVE STAFFORD, TEXAS 77477 PHONE: 281.491.2525 FAX: 281.491.2535

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14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION



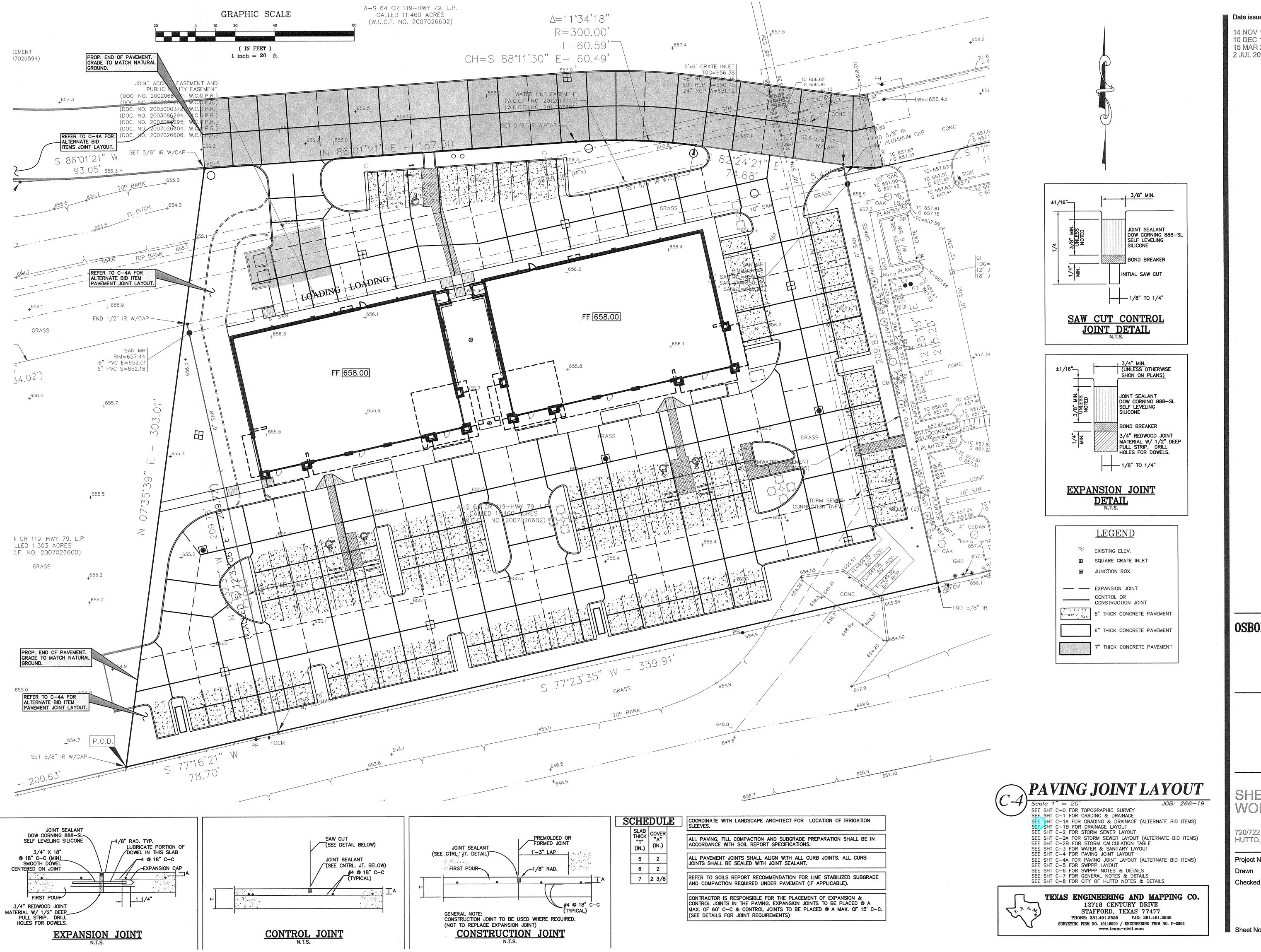
OSBORN & VANE ARCHITECTS 2

SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No. Drawn

Checked



14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION

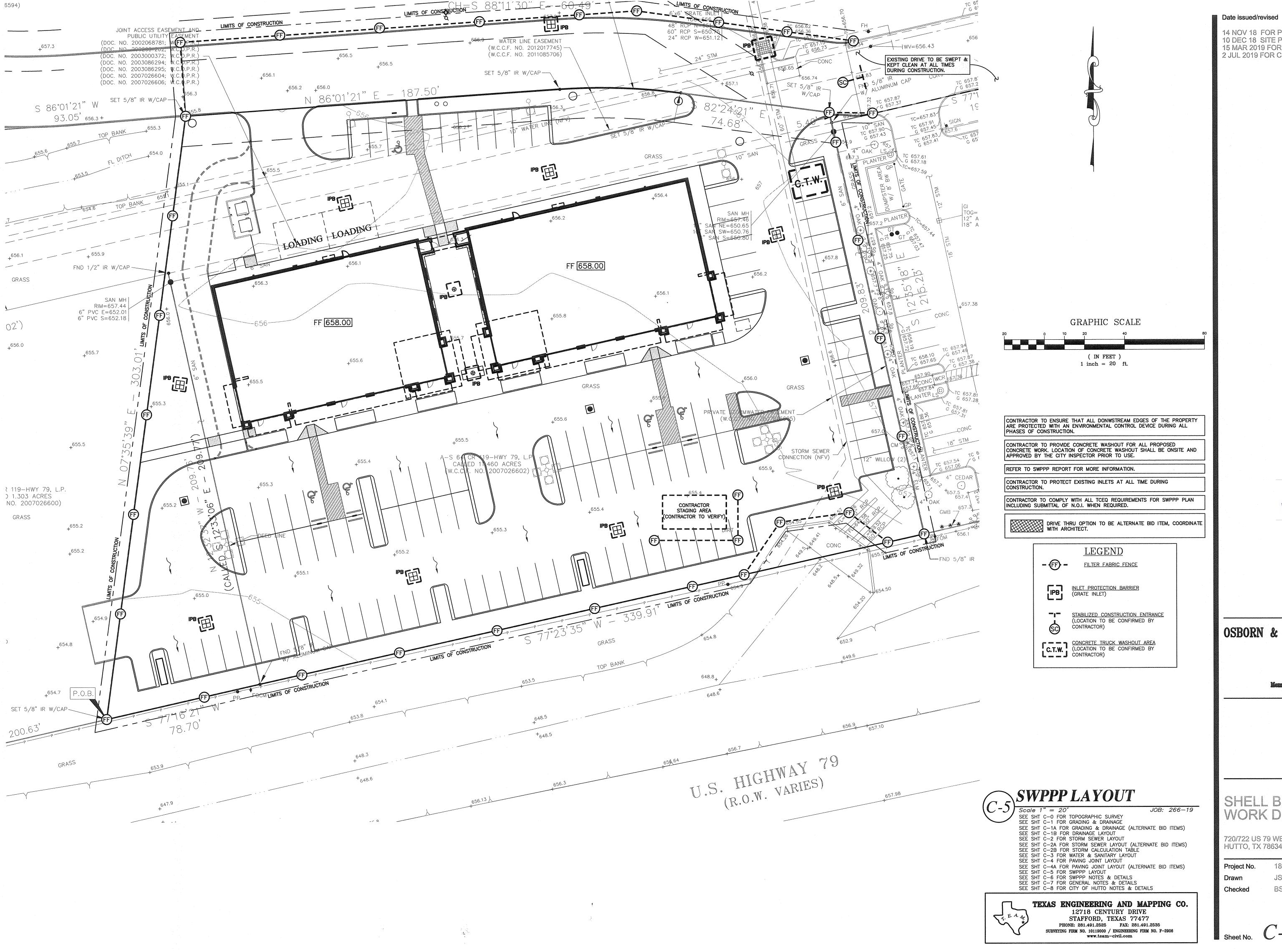


OSBORN & VANE ARCHITECTS 3

SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No.



6594)

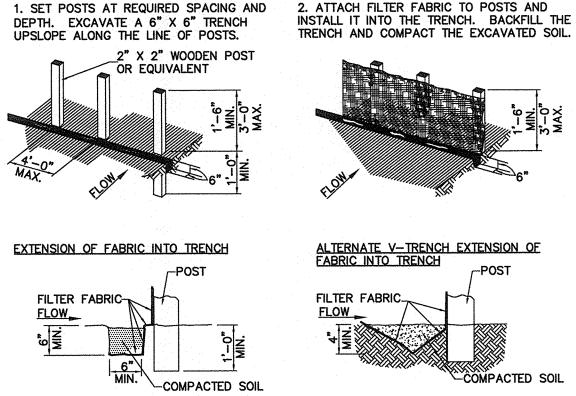
14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION



OSBORN & VANE ARCHITECTS 3

SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634



GENERAL NOTES:

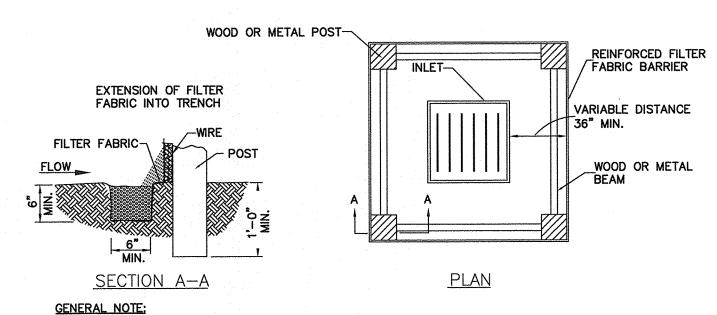
1. SET POSTS AT 4—FEET MAXIMUM SPACING. IF FACTORY PRE ASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.

2. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, OVERLAP 6 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO THE POSTS.

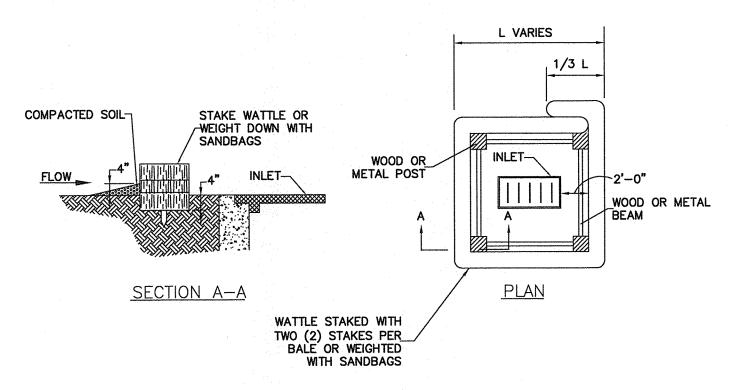
3. REMOVE SEDIMENT DEPOSITS WHEN SILT DEPTH REACHES ONE—THIRD OF THE HEIGHT OF THE FENCE.

FILTER FABRIC BARRIER

X === X



1. SEE REINFORCED FILTER FABRIC BARRIER DETAIL FOR REINFORCED FILTER FABRIC BARRIER REQUIREMENTS.

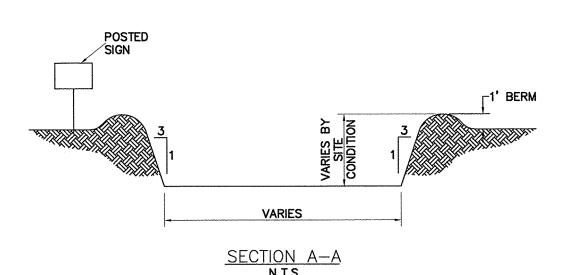


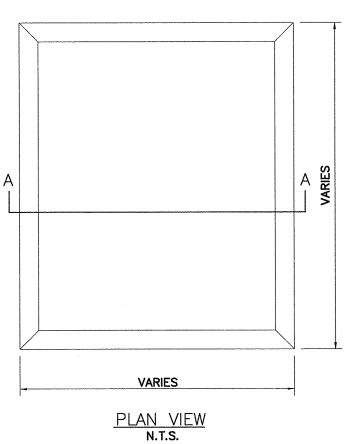
GENERAL NOTE:

1. TYPICALLY STRAW BALES ARE NOT RECOMMENDED FOR INLET PROTECTION BARRIERS.

INLET PROTECTION BARRIERS FOR STAGE I INLETS

SYMBOL





GENERAL NOTES:

1. POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.

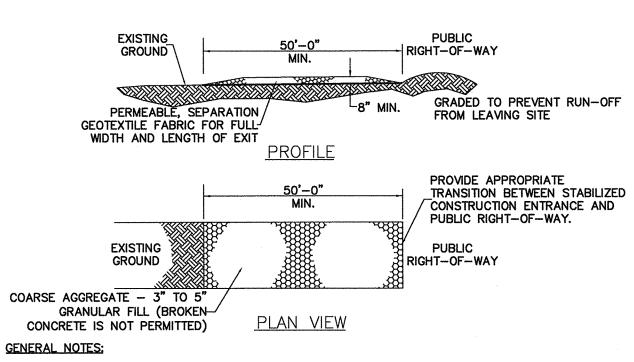
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT AND NO WHERE ELSE.

3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN—SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.

4. CONCRETE WASH OUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.

5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.





1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.

2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.

3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.

4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING

5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.

6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.

7. ALTERNATIVE METHODS OF CONSTRUCTION INCLUDE:

--CEMENT STABILIZED SOIL: COMPACTED CEMENT STABILIZED SOIL, LIMESTONE AGGREGATE,
OR OTHER FILL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES.

--WOOD MATS: OAK OR OTHER HARDWOOD TIMBERS PLACED EDGE TO EDGE AND ACROSS
SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION
THICKNESS OF 6 INCHES.

--STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS.

STABILIZED CONSTRUCTION ACCESS

SCH SYMBOL (IF REQUIRED)

Date issued/revised

14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION



OSBORN & VANE ARCHITECTS &

2000 Bering Drive, Suite 4:
Houston, Texas 770:
713 761 52:
Fax 713 761 53:
Members American Institute of Architec

SWPPP NOTES & DETAILS

Scale 1" = 20'

SEE SHT C-0 FOR TOPOGRAPHIC SURVEY
SEE SHT C-1 FOR GRADING & DRAINAGE
SEE SHT C-1A FOR GRADING & DRAINAGE (ALTERNATE BID ITEMS)
SEE SHT C-1B FOR DRAINAGE LAYOUT

SEE SHI C-18 FOR DRAINAGE LAYOUT
SEE SHT C-2 FOR STORM SEWER LAYOUT
SEE SHT C-2A FOR STORM SEWER LAYOUT (ALTERNATE BID ITEMS)
SEE SHT C-2B FOR STORM CALCULATION TABLE

SEE SHI C-ZA FOR STORM SEWER LATOUT (ALTERNATE BID TIEN SEE SHT C-2B FOR STORM CALCULATION TABLE SEE SHT C-3 FOR WATER & SANITARY LAYOUT SEE SHT C-4 FOR PAVING JOINT LAYOUT

SEE SHT C-4 FOR PAVING JOINT LAYOUT
SEE SHT C-4A FOR PAVING JOINT LAYOUT (ALTERNATE BID ITEMS)
SEE SHT C-5 FOR SWPPP LAYOUT
SEE SHT C-6 FOR SWPPP NOTES & DETAILS

SEE SHT C-7 FOR GENERAL NOTES & DETAILS SEE SHT C-8 FOR CITY OF HUTTO NOTES & DETAILS

TEXAS ENGINEERING AND MAPPING CO.

12718 CENTURY DRIVE
STAFFORD, TEXAS 77477

PHONE: 281.491.2525 FAX: 281.491.2535

SURVEYING FIRM NO. 10119000 / ENGINEERING FIRM NO. F-2906

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SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No. 18064

Drawn JS

Checked BS

C G

neet No. C-6

1. STORM SEWER PIPE SHALL BE ADS N-12 PIPE (CORRUGATED POLYETHYLENE PIPE) PER A.S.T.M. F-405, A.S.T.M. F-667, A.S.T.M. D-2321, AND AASHTO M-294. BEDDING, BACKFILLING, INSTALLATION OF PIPE, AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH WILLIAMSON COUNTY, AND CITY OF HUTTO, SPECIFICATIONS FOR SEWER CONSTRUCTION, INCLUDING ALL AMENDMENTS AND REVISIONS, THERETO.

2. SANITARY SEWER SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE MEETING A.S.T.M. SPECIFICATIONS D-3034-73 AND HAVING A S.D.R. OF 26. OR AS NOTED. BEDDING. BACKFILLING, INSTALLATION OF PIPE, AND CONSTRUCTION OF APPURTENANCES SHALL BE IN ACCORDANCE WITH WILLIAMSON COUNTY, AND CITY OF HUTTO AND/OR DISTRICT

3. WATER LINES SHALL BE PVC (POLY-VINYL CHLORIDE) PIPE CONFORMING TO A.W.W.A. C-900 PVC, CLASS 150 OR SCHEDULE 40 PVC OR PER WILLIAMSON COUNTY, AND CITY OF HUTTO AND/OR DISTRICT REQUIREMENTS.

4. PVC PIPE BID IN THIS CONTRACT SHALL CONFORM TO THE MOST CURRENT A.W.W.A. AND A.S.T.M. REQUIREMENTS (INCLUDING A.S.T.M. D2412-PIPE STIFFNESS). 5. CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURE AS REQUIRED BY THE DISTRICT.

6. ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN AT THE APPROXIMATE LOCATIONS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD DETERMINE THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. HE SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND MAINTAIN THESE UNDERGROUND UTILITIES.

7. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL POINTS OF CROSSING TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.

8. OWNER TO OBTAIN ALL PERMITS REQUIRED BY WILLIAMSON COUNTY FOR CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN COUNTY ROAD RIGHT-OF-WAY. 9. CONTRACTOR TO OBTAIN ALL PERMITS BY REGULATION OF WILLIAMSON COUNTY, TEXAS FOR FLOOD PLAN MANAGEMENT.

10. ALL FILL COMPACTION AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SOIL REPORT SPECIFICATIONS.

11. ALL SEWERS UNDER OR WITHIN ONE (1) FOOT OF PROPOSED OR FUTURE PAVEMENT SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE.

12. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS. 13. CONTRACTOR SHALL PROVIDE SHEETING, SHORING, AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF

14. UTILITIES ARE TO BE TAKEN WITHIN FIVE (5) FEET OF BUILDING. SEE PLUMBING SHEETS INDICATED FOR CONTINUATION OF SERVICE CONNECTIONS INTO BUILDING. 15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND

RESTORING ALL DRAINAGE SYSTEMS. 16. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS AS

17. NO CONNECTIONS SHALL BE MADE TO EXISTING SANITARY SEWER LINES UNTIL ALL PROPOSED SEWER LINES HAVE BEEN THOROUGHLY CLEANED, TESTED, AND APPROVED BY THE ARCHITECT OR ENGINEER.

18. CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY LINES.

19. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY ALL GOVERNING AGENCIES. 20. CONTRACTOR TO COORDINATE WITH ARCHITECTS AND M.E.P. DRAWINGS FOR CONNECTION AND LOCATION OF ALL DOWN SPOUTS AND ALL PLUMBING UTILITIES.

21. OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTI-& SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL RELIANT ENERGY H.L.&P. AT 713-207-7777.

22. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS M.U.T.C.D. MOST RECENT EDITION WITH REVISIONS) DURING

23. CAUTION: UNDERGROUND GAS FACILITIES ENTEX MAIN LINES (TO INCLUDE UNIT GAS TRANSMISSION, AND/OR INDUSTRIAL GAS SUPPLY CORPORATION WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE SERVICE LINES ARE USUALLY NOT SHOWN. SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 713-223-4567 OR -800-659-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

* WHEN RELIANT ENERGY ENTEX PIPE LINE MARKINGS ARE NOT VISIBLE, CALL 713-967-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

* WHEN EXCAVATING WITHIN EIGHTEEN (18) INCHES OF THE INDICATED LOCATION OF RELIANT ENERGY ENTEX FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATING PROCEDURES.

* WHEN RELIANT ENERGY ENTEX FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON

24. AT&T TEXAS/SWBT UTILITIES MAY EXIST IN STREET RIGHT OF WAY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

25. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, ETC. WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED AS REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT.

26. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET APPROPRIATE REQUIREMENTS ESTABLISHED IN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY & HEALTH REGULATIONS, 29 CFR 1926, SUBPART P - EXCAVATIONS, TRENCHING, AND SHORING, AND OSHA PROPOSED STANDARDS ON TRENCHING, EXCAVATION PUBLISHED IN VOLUME 52, NO. 72 OF THE FEDERAL REGISTER, APRIL 15, 1987, PAGES 12288-12339. SHOULD THE REFERENCED OSHA STANDARDS BE MODIFIED OR AMENDED, THE MORE STRINGENT REQUIREMENTS SHALL

27. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.

28. GUIDELINES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

29. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.00% PER ADA 30. THE CONTRACTOR SHALL NOT MAKE ANY FIELD MODIFICATION WITHOUT THE APPROVAL OF THE ENGINEER, TEXAS ENGINEERING AND MAPPING CO., (281)

491-2525. THE APPROVAL MUST BE OBTAINED PRIOR TO RESUMING ANY

CONSTRUCTION IN THE AFFECTED AREA.

TIE #4 BARS TOGETHER-

PROP #4 BAR x 18" (MIN. LENGTH) -

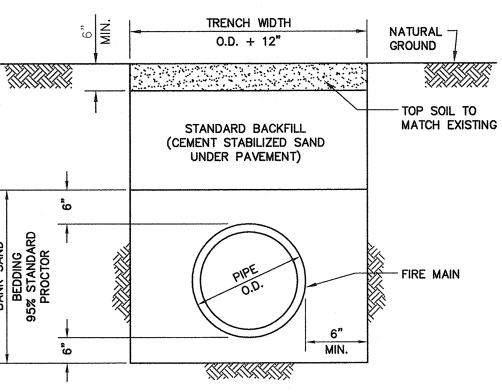
◎ 18" C−C DOWEL IF REQUIRED

IF CONTRACTOR ACCIDENTALLY CUTS EXISTING SET DOWEL IN REBAR, #4 DOWELS SHALL BE EMBEDDED INTO **EPOXY GROUT** EXISTING CONCRETE A MINIMUM OF 6" AT 18" -EXIST CONC. PVMT PROP #4 BAR @ 18" C-C-CONC. PVMT

/ 12"

CONSTRUCTION JOINT PROPOSED CONCRETE TO EXISTING CONCRETE

5**"**



GENERAL NOTES:

INSTALLED AS REQUIRED.

- INTERNAL INSULATION 1.5' IN WALLS, 3' 8 TOP

PRECAST CONCRETE

TOP VIEW

CLOSED POSITION

OPEN POSITION

Typical Applications

M W

Specifications

COMPACTED SUBGRADE

HINGED ACCESS LID W/ HASP & STAPLE

STEEL SUPPORTS BOLTED TO SLAB

Class 1 concrete with design strength of 4500 PSI at 28 days.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

RP devices are used to protect against high hazard (toxic) fluids

MOUNTING DETAIL

1. BACKFILL SHALL BE NATIVE SOIL, FREE OF DEBRIS, PLACED IN LIFTS OF EIGHT (8) INCHES OR LESS, COMPACTED TO 95% STANDARD PROCTOR DENSITY, EXCEPT AS REQUIRED UNDER PAVEMENT.

2. BACKFILL UNDER PAVEMENT AND PUBLIC STREETS SHALL BE CEMENT STABILIZED SAND (1.5 SACKS OF CEMENT PER CUBIC YARD OF SAND), COMPACTED TO 95% STANDARD PROCTOR DENSITY. 3. TRENCH SHORING, IN ACCORDANCE WITH OSHA, SHALL BE

FIRE/WATER MAIN BEDDING AND BACKFILL

N.T.S.

BACKFLOW DIMENSIONS | ENCLOSURE DIMENSIONS PAD DIMENSION

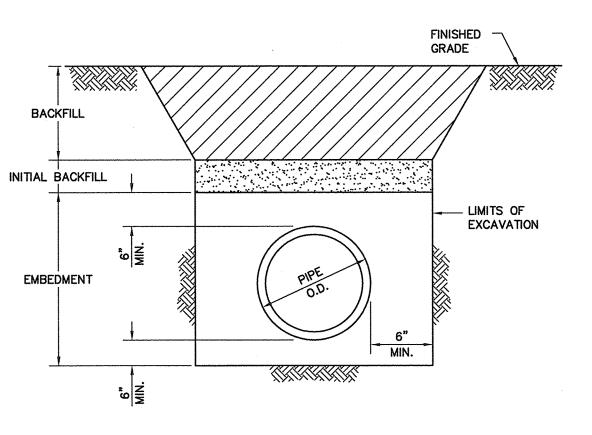
FRONT VIEW

MODEL EF BEIGE COLOR (OPTIONAL)

REDUCED PRESSURE BACKFLOW PREVENTER

RPE34 % 12½ 7½ 4½ 3½ 28" 27" 13" 35" 42"
RPE10 1" 13% 7½ 4½ 3½ 28" 27" 13" 35" 42"
RPE14 1½ 14½ 7½ 4½ 3½ 28" 28" 37" 13" 35" 42"
RPE15 1½ 14½ 7½ 4½ 3½ 28" 39" 13" 35" 54"

RPE15 1½° 18¾° 10¾° 5¾° 4½° 28° 39° 13° 35° 54° 28° RPE20 2° 19° 10¾° 5¾° 3¼° 28° 39° 13° 35° 54° 28°



GENERAL NOTES:

1. BACKFILL SHALL BE NATIVE SOIL, FREE OF DEBRIS, COMPACTED TO 95% STANDARD PROCTOR DENSITY, EXCEPT AS REQUIRED UNDER PAVEMENT.

2. INITIAL BACKFILL SHALL BE UNIFORMLY GRADED MATERIAL (MAXIMUM SIZE, 3" DIAMETER), PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, EXCEPT AS REQUIRED UNDER PAVEMENT.

3. EMBEDMETN SHALL BE CEMENT STABILIZED SAND (1.5 SACKS PER CUBIC YARD) COMPACTED TO 95% STANDARD PROCTOR DENSITY.

4. UNDER PAVING OR WITHIN 3' OF PAVEMENT, THE INITIAL BACKFILL AND ALL BACKFILL UP TO THE PAVEMENT SUBGRADE SHALL BE CEMENT STABILIZED SAND (1.5 SACKS PER CUBIC YARD) COMPACTED TO 95% STANDARD PROCTOR DENSITY.

5. TRENCH SHORING IN ACCORDANCE WITH OSHA, SHALL BE INSTALLED WHERE

6. SOIL IN THE PIPE ZONE SHALL CONSIST OF NON-WATERBEARING, COHESIVE SOILS WITH A SHEAR STRENGTH OF 1000 PSF OR GREATER. WHEN WET SAND EXISTS IN THE PIPE ZONE, MODIFIED BEDDING SHALL BE INSTALLED.

STORM SEWER BEDDING AND BACKFILL

N.T.S.

GRATE SIZE

THE REPORT OF

RISER SECTION (AS REQ'D)

W2 SQ

"Expect the Best"

CBTA1848

TYPE-A GRATE INLET SIZES 18" THRU 48"

800-256-8041 www.park-USA.com

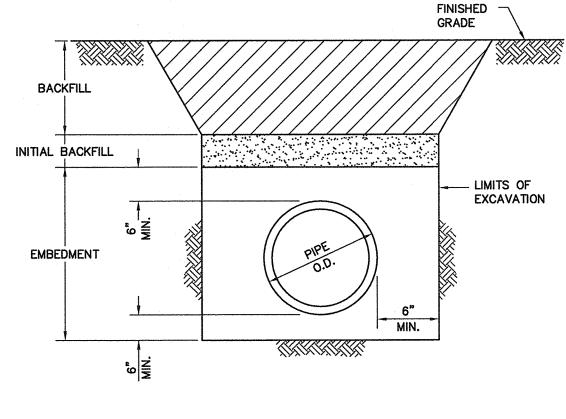
- BASIN SECTION

- CAST IRON FRAME & GRATE

BASIN SECTION

OUT. (FIELD GROUT PIPE AS REQ'D)

1. FOR ADA COMPLIANT GRATES, SPECIFY SUFFIX ADA, IE. CBTA24—ADA 2. GRATING IS AVAILABLE WITH SPECIAL LETTERING



GENERAL NOTES:

1. BACKFILL SHALL BE NATIVE SOIL, FREE OF DEBRIS, COMPACTED TO 95% STANDARD PROCTOR DENSITY, EXCEPT AS REQUIRED UNDER PAVEMENT.

2. INITIAL BACKFILL SHALL BE UNIFORMLY GRADED MATERIAL (MAXIMUM SIZE, 3" DIAMETER), PLACED IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, EXCEPT AS REQUIRED UNDER PAVEMENT.

3. EMBEDMETN SHALL BE CEMENT STABILIZED SAND (1.5 SACKS PER CUBIC YARD) COMPACTED TO 95% STANDARD PROCTOR DENSITY.

4. UNDER PAVING OR WITHIN 3' OF PAVEMENT, THE INITIAL BACKFILL AND ALL BACKFILL UP TO THE PAVEMENT SUBGRADE SHALL BE CEMENT STABILIZED SAND (1.5 SACKS PER CUBIC YARD) COMPACTED TO 95% STANDARD PROCTOR DENSITY.

REQUIRED. 6. SOIL IN THE PIPE ZONE SHALL CONSIST OF NON-WATERBEARING, COHESIVE SOILS WITH A SHEAR STRENGTH OF 1000 PSF OR GREATER. WHEN WET SAND EXISTS IN

THE PIPE ZONE, MODIFIED BEDDING SHALL BE INSTALLED.

5. TRENCH SHORING IN ACCORDANCE WITH OSHA, SHALL BE INSTALLED WHERE

SANITARY SEWER BEDDING AND BACKFILL

CAST IRON MANHOLE FRAME

CONCENTRIC CONE

(in) (in) WT/LF (it

48 5 8-1/2 868

60 6 8-1/2 1300

72 7 8-1/2 1811

84 8 8-1/2 2350

RAMNEKJOINT SEALANT

BASE SECTION, KNOCKOUTS

SANITARY MANHOLE INVERT

MANHOLE BY PARK EQUIPMEN COMPANY 800-256-8041

. LIFTING INSERTS AS REQUIRED.

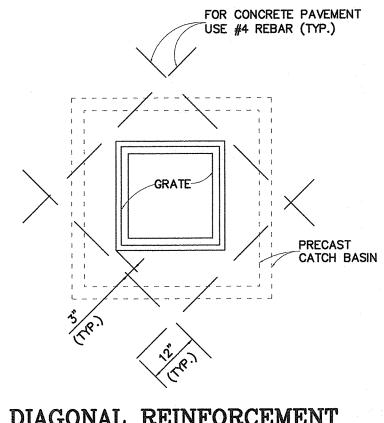
PARK 888-611-PARI

"Expect the Best"

PCMHIN-6

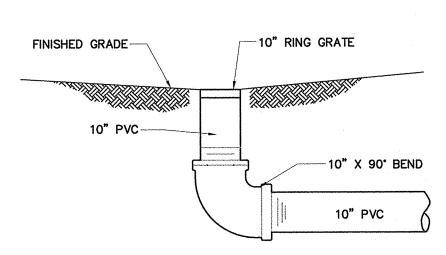
PRECAST CONCRETE MANHOLE FOR SANITARY SEWER

N.T.S.

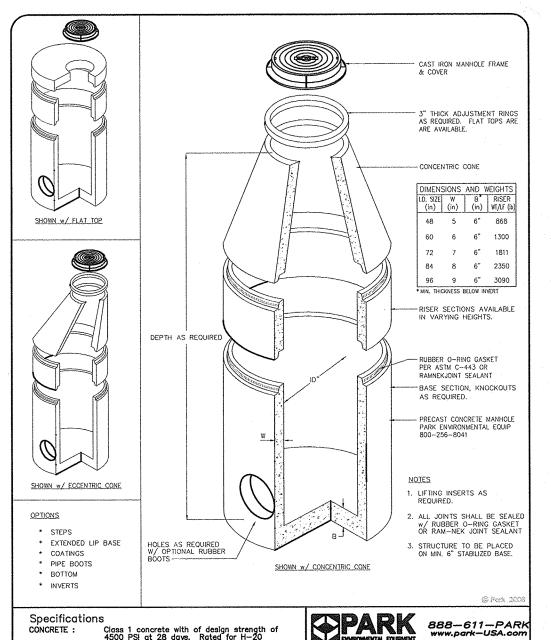


DIAGONAL REINFORCEMENT

N.T.S.



N.T.S.



Class 1 concrete with of design strength of 4500 PSI at 28 days. Rated for H-20 REINFORCEMENT: Structural reinforcement conforming to ASTM-C-478.

GENERAL

"Expect the Best" PRECAST CONCRETE MANHOLE FOR STORM SEWER PCMHST-1 10/08

OSBORN & VANE ARCHITECTS #

5/26/2020

Date issued/revised

14 NOV 18 FOR PRICING

1 NOV 2019 BULLETIN #4

15 MAR 2019 FOR PERMIT

10 DEC 18 SITE PLAN RESUBMITTAL

2 JUL 2019 FOR CONSTRUCTION

NOTES & DETAILS

JOB: 266-19 Scale 1" = 20 SEE SHT C-0 FOR TOPOGRAPHIC SURVEY SEE SHT C-1 FOR GRADING & DRAINAGE SEE SHT C-1A FOR GRADING & DRAINAGE (ALTERNATE BID ITEMS) SEE SHT C-1B FOR DRAINAGE LAYOUT

SEE SHT C-2 FOR STORM SEWER LAYOUT SEE SHT C-2A FOR STORM SEWER LAYOUT (ALTERNATE BID ITEMS) SEE SHT C-2B FOR STORM CALCULATION TABLE SEE SHT C-3 FOR WATER & SANITARY LAYOUT

SEE SHT C-4 FOR PAVING JOINT LAYOUT SEE SHT C-4A FOR PAVING JOINT LAYOUT (ALTERNATE BID ITEMS) SEE SHT C-5 FOR SWPPP LAYOUT SEE SHT C-6 FOR SWPPP NOTES & DETAILS

SEE SHT C-8 FOR CITY OF HUTTO NOTES & DETAILS

SURVEYING FIRM NO. 10119000 / ENGINEERING FIRM NO. F-2906 www.team-civil.com

TEXAS ENGINEERING AND MAPPING CO. 12718 CENTURY DRIVE E. A. M STAFFORD, TEXAS 77477 PHONE: 281.491.2525 FAX: 281.491.2535

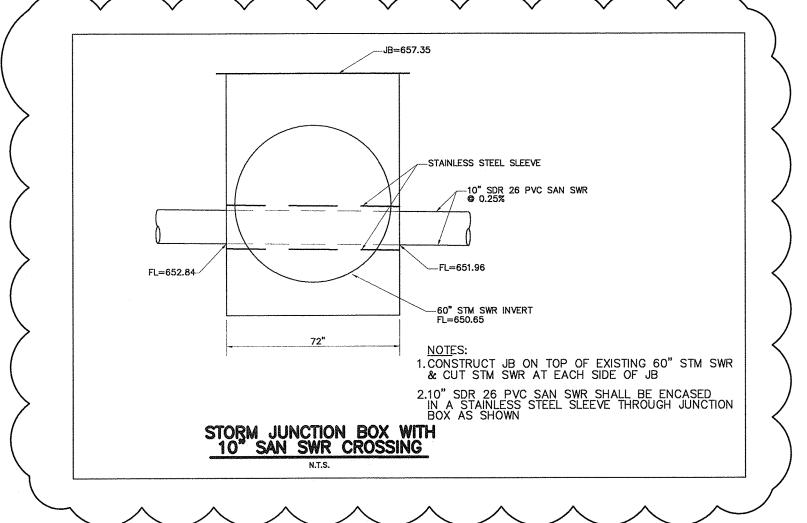
SEE SHT C-7 FOR GENERAL NOTES & DETAILS

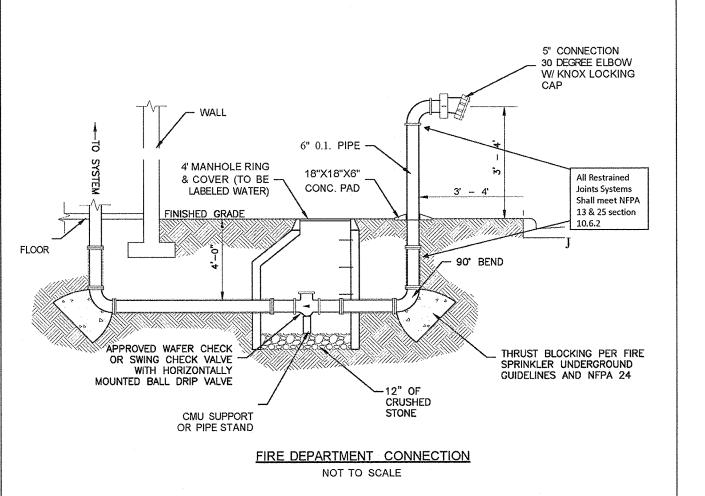
SHELL BUILDING & SITE WORK DEVELOPMENT

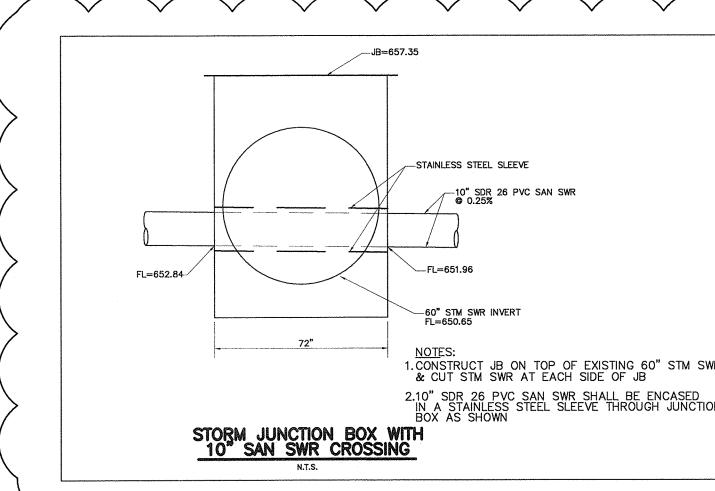
720/722 US 79 WEST TOWNWEST COMMONS **HUTTO, TX 78634**

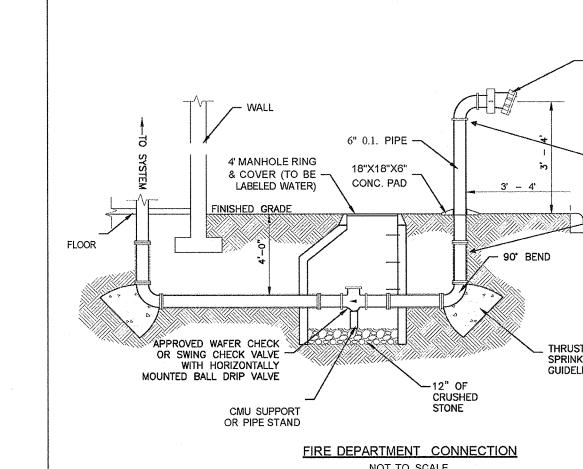
Project No. Drawn Checked

in water services to industrial plants, hospital facilities, morgues, mortuaries, and chemical plants. They are also used in irrigation systems, boiler feed, water lines and other installations requiring maximum protection. SPECIFICATIONS Class 1 concrete with of design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth. Rated for H-20 Loading. CONCRETE: Engineering Data
The backflow assembly shall be factory assembled on pad & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations: REDUCED PRESSURE BACKFLOW PREVENTER ON PRECAST CONCRETE PAD REINFORCEMENT: Grade 60 reinforced with steel rebor to conform to ASTM A615 on required centers NONE C.I. CASTINGS: RPE-1 -STAINLESS STEEL SLEEVE SDR 26 PVC SAN SWR









SHOWN w/ FLAT TOP

0

STEPS

* BOTTOM

* INVERTS

Specifications

* COATINGS

PIPE BOOTS

OPTIONS

SHOWN w/ ECCENTRIC CONE

* EXTENDED LIP BASE

ES AS REQUIRED OPTIONAL RUBBER

Class 1 concrete with of design strength of 4500 PSI at 28 days. Rated for H-20

REINFORCEMENT: Structural reinforcement conforming to ASTM-C-478.

SHOWN w/ CONCENTRIC CONE

10/08

City Of Hutto - General Construction Notes Updated March 2019

1. The contractor is to contact one of the following: Texas811

1-800-669-8344 Lone star For location of existing facilities at least 48 hours prior to commencement of any construction activities.

2. Prior to any construction, the design engineer shall convene a preconstruction conference between the City of Hutto, himself, the contractor, other utility companies. any affected parties and any other entity the City or engineer may require. If construction is not started on the site within 30 calendar days after the pre-construction conference, the engineer shall convene a new preconstruction conference between the City of Hutto, himself, and all the above mentioned entities.

3. Prior to any changes to the construction site, video of the site must be taken and

provided to the City before construction commences. 4. All construction operations shall be performed in accordance with City of Hutto Engineering Manual and standard construction specifications and details. If City of Hutto Engineering Manual unavailable, or not applicable, refer to TxDOT and/or City of Georgetown Manual, standards and/or specifications.

All storm sewer bends and wyes shall be prefabricated. 6. All storm sewer mains to be field-tested for water tightness no sooner than 30 days after total completion of the storm sewer lines.

7. All storm sewer mains to be video taped by camera no sooner than 30 days after total completion of the storm sewer lines. Two digital copies shall be supplied to the City before closeout. All storm sewer conduits will be inspected by the city before city acceptance, video must show details of all irregularities or offsets (minimum 10 seconds of video time).

8. All construction operations shall be accomplished in accordance with applicable regulations of the U.S. Occupational Safety and Health Administration. OSHA standards may be purchased from the government printing office; information and related reference materials may be purchased from OSHA, 611 e. 6th Street, Austin,

9. Contractor shall take all due precautions to protect existing facilities from damage. Any damage incurred to existing facilities as a result of construction operations to be

repaired immediately by the contractor, at no additional cost to owner. 10. Contractor to give notice to all authorized inspectors, superintendents or persons in charge of public and private utilities affected by his operations at least 48 hours prior to commencement of work.

City of Hutto - Water Notes

Updated March 2019

1. Water systems shall be constructed in accordance with City of Hutto Engineering Manual,

2. Fire hydrants on mains under construction shall be securely wrapped with a poly wrap bag

3. All water service, wastewater service, and valve locations shall be appropriately marked as

4. Tools for marking curbs shall be provided by the Contractor. Other appropriate means of

5. Thrust blocking and restraints shall be in accordance with City of Hutto standard

6. Hydrostatic pressure and leakage tests shall be performed on all pressure pipelines carrying

7. All newly installed pipes and related products must conform to American National Standards

8. Pipe material for water mains shall be PVC (AWWA C900/C905, MIN. DR 14), or Ductile Iron

9. All ductile iron pipe (D.I.P) shall be wrapped with eight (8) MIL, black virgin polyethylene wrap

10.All D.I.P. shall be lined with virgin polyethylene conforming to ASTM D-1248; 40 MIL

thickness (nominal), 35 MILS (minimum). Liner to be Polybond or equal. At any point where

D.I.P. cannot be wrapped in polyethylene, coat the exterior with Polybond or approved equal.

equipped bell and spigot joints conforming to ASTM D-3212. The gasket material shall

minimum of nine feet of clearance in any direction between them. Where the nine foot

A. If a collection system pipe parallels a public water supply pipe the following

I. A collection system pipe must be constructed of cast iron, ductile iron, or PVC

meeting ASTM specifications with at least 150 pounds per square inch (PSI)

11. All PVC pipe (all types and SDR/DR wall thickness to be used) shall have rubber gasket

12. All potable waterlines and sanitary sewer facilities must be installed so as to provide a

conform to ASTM F-477. Solvent welded joints will not be approved for this project.

separation distance cannot be achieved, follow these special procedures.

pressure rating for both the pipe and joints.

(AWWA C151, MIN. CLASS 350). Water services (2" OR SMALLER) shall be polyethylene

marking service and valve locations shall be provided in areas without curbs. Such means of

"W" on top of curb

marking shall be specified by the engineer and approved by the City of Hutto.

Institute must be certified by an organization accredited by ANSI.

and taped into place. The poly wrap shall be removed when the mains are accepted and

"V" on top of curb or valve sign as instructed by City Engineer

standard specifications and standard details.

A. Water Service

tubing (BLACK, 200 PSI, DR 9).

requirements apply:

Page 1 of 3

as specified in ANSI/AVWA C105/A21.5.

specifications.

brought into service. All fire lines shall be ductile, iron

11. Contractor to comply with all applicable local, state, and federal requirements regarding excess and waste material, including methods of handling and disposal. 12. Contractor to coordinate interruptions of all utilities and services. All work to be in

accordance with the requirements of the applicable utility company or agency involved. 13. When un-located or incorrectly located, a break in utility lines, or other utilities and services are encountered during site work operations, contractor shall notify the applicable utility company immediately to obtain procedure directions. Contractor shall cooperate with the applicable utility company in maintaining active services in operation.

14. Contractor to locate, protect, and maintain benchmarks, monuments, control points and project engineering reference points. Re-establish disturbed or destroyed items by registered professional land surveyor in the State of Texas, at no additional cost to

15. When construction is being carried out within easements, the contractor shall confine his work to within the permanent and temporary easements. Prior to final acceptance, the contractor shall be responsible for removing all trash and debris within the permanent and temporary easements. Clean-up shall be to the satisfaction of the

16. The contractor and the engineer shall keep accurate records of all construction that deviates from the plans. Accurate "record" drawings will be provided to the City of Hutto, along with a letter certification from a registered professional engineer licensed in the State of Texas, stating that said project has been constructed in accordance with these plans, prior to the owner being issued a certification of completion and final acceptance. These "record" drawings shall meet with the satisfaction of the Engineering and Development Services Departments prior to final acceptance. 17. Contractor shall strip six (6) inches of topsoil from all areas subject to grade

modification. Remove all areas of weak soil. 18. The contractor shall protect all existing fences. In the event that a fence must be removed, the contractor shall replace said fence or portion thereof with the same type of fencing to a quality of equal or better than the original fence.

19. Upon completion of the project, the site(s) as defined herein shall be cleaned of all debris and left in a neat and presentable condition. 20. All adjoining payement sections shall be protected during all phases of construction and any damages incurred due to contractor's operation shall be repaired and/or replaced at

the contractor's expense. 21. Contractor to control dust caused by the work and comply with pollution control regulations of governing authorities (no separate pay).

22. Traffic controls to be installed in accordance with the current TxDOT manual on uniform traffic control devices and TyDOT barricade and construction standards

II. Vertical separation must be at least two feet between the outside diameters of

III. Horizontal separation must be at least four feet between outside diameters of

I. If a collection system is constructed of cast iron, ductile iron, or PVC with a

minimum pressure rating of 150 PSI, the following requirements apply:

a. A minimum distance of six (6) inches between outside diameters of the

c. Collection system pipe joints must be located as far as possible from an

b. A collection system pipe must be below a public water supply pipe.

II. If a collection system crosses over a public water supply pipe, each portion of

B. If a collection system pipe crosses a public water supply pipe, the following

23. Revegetate all disturbed areas upon completion of the work per City of Georgetown construction standards.

IV. Collection system pipe must be below water supply pipe.

intersection with a public water supply line.

least 150 PSI using appropriate adapters.

and be required to reimburse the city for water use, if not already metered.

Department for all water used during construction.

Page 2 of 3

the pipes.

24. Contractor to exercise caution during construction near and around gas lines and power

25. No work is to be performed between the hours of 6:00 p.m. and 7:00 a.m. all work requiring City inspection shall be performed Monday thru Friday. The City reserves the right to require the contractor to uncover all work performed without inspection.

26. The Contractor shall determine the exact location vertically and horizontally of all existing utilities prior to commencing work, and shall notify the engineer and the City if the existing utility location and depths are different from what is shown on the plans. The contractor agrees to be fully responsible for any and all damages which might be associated by the contractor's failure to exactly locate and preserve any and all underground utilities.

27. All Fire Lines shall be ductile iron. 28. Detectable tape shall be used for all underground utilities. Tape must be 12" wide 5 mil

with applicable color and label. 29. Contractor will be responsible for keeping roads and drives adjacent to and near the site free from soil, sediment and debris. Contractor will not remove soil, sediment or debris from any area or vehicle by means of water, only shoveling and sweeping will be allowed. Contractor will be responsible for dust control from the site.

30. The Contractor shall be responsible for all damage to private property which occurs as a result of any portion of this project. Any damage to private property shall be repaired to equal or better condition. The Contractor shall pay and/or settle with private property owner(s) for all cost related to damage. The City will not provide separate pay for repair of damages, reimbursements or settlements.

Page 3 of 3

Standard detail.

City of Hutto - Wastewater Notes

Updated August 2018 I. Wastewater systems shall be constructed in accordance with the City of Hutto Engineering Design Manual, standard specifications and standard details.

2. No curvilinear wastewater design/layout is permitted. 3. All wastewater service, and valve locations shall be appropriately marked as follows: A. Wastewater Service "S" on top of curb

B. Valve "V" on top of curb 4. Tools for marking curbs shall be provided by the Contractor. Other appropriate means of marking service and valve locations shall be provided in areas without curbs. Such means of marking shall be specified by the Design Engineer and approved by the City of Hutto. 5. Thrust blocking and restraints shall be in accordance with City of Hutto standard

specifications. 6. Mandrel testing will be required on all wastewater pipe as per City of Hutto construction

specifications. . All gravity wastewater mains to be field-tested for water tightness and video taped by camera so sooner than 30-days after total completion of wastewater lines. Two digital copies shall

be provided to the City before closeout. 8. Hydrostatic pressure and leakage tests shall be performed on all pressure pipelines carrying

9. All manholes shall be tested for leakage separately and independently of wastewater lines by hydrostatic exfiltration testing or other City approved method per City of Hutto construction specifications.

10. Existing manholes shall be tested for leakage prior to coring or adjustment. 11. Existing manholes shall have all concrete surfaces cleaned and coated per City of Hutto wastewater details after coring or adjustment.

12. All newly installed pipes and related products must conform to American National Standards Institute / National Sanitation Foundation Standard 61 and must be certified by an organization accredited by ANSI.

13. Pipe material for pressure wastewater mains shall be PVC (AWWA C900, MIN. DR 14), or Ductile Iron (AWWA C151, MIN. CLASS 350). Ductile iron for pressure wastewater mains shall have a corrosion resistant interior lining acceptable to owner. Pipe material for gravity wastewater mains shall be PVC SDR-26, ASTM D-3034. 14.All PVC pipe (all types and SDR/DR wall thickness to be used) shall have rubber gasket

equipped bell and spigot joints conforming to ASTM D-3212. The gasket material shall conform to ASTM F-477. Solvent welded joints will not be approved for this project. 15.All sanitary sewer facilities and potable waterlines must be installed so as to provide a minimum of nine feet of clearance in any direction between them. Where the nine foot separation distance cannot be achieved, follow these special procedures.

Page 1 of 2

A. If a collection system pipe parallels a public water supply pipe the following

pressure rating for both the pipe and joints.

IV. Collection system pipe must be below water supply pipe.

intersection with a public water supply line.

16. An independent qualified lab, at the Contractor's expense, shall perform quality testing for all

wastewater pipe installed and pressure hydrostatic testing of all water lines constructed. The

contractor shall provide all equipment (including pumps and gages), supplies, and labor

necessary to perform the tests. A City of Hutto Construction Inspector must be present for all

17. The Contractor shall provide the design engineer and the City not less than 24 hours notice

18. The Contractor shall not open or close any valves unless authorized by the City of Hutto.

20. All manholes shall be concrete with cast iron ring and cover. All manholes located outside of

pavement shall have bolted and gasketed covers. Concrete manholes to be coated per

standard detail and construction specifications. Tapping of fiberglass manholes shall not be

STANDARD FRAME AND COVER,

AS PER DETAILS WW-07 AND WW-07A.

(NOT IN PAVEMENT)

---- BACKFILL, AS PER

(SEE WW-03 NOTE #4)

CONSTRUCTION SPECIFICATION

19. All valve boxes and covers shall be cast iron per City of Hutto standard details.

22. All mechanical restraints shall be installed per manufacturer's specifications.

33 3/4"

NCASEMENT FOR DROP CONNECTION TO BE POURED INTEGRALLY WITH

1. CONCRETE ENCASEMENT FOR DROP CONNECTION TO BE POURED INTEGRALLY WITH BOTH MANHOLE SLAB AND WALL.
2. DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INVERT CHANNEL.
3. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
4. MINIMUM PIPE SIZE FOR DROP IS EIGHT INCHES (8").
5. SEE STANDARD MANHOLE DETAIL (DWG. # WW-03) FOR ADDITIONAL REQUIREMENTS.

CITY OF HUTTO

DROP CONNECTION-PRECAST MANHOLE TYPE "A

HUTTO UTILITY SYSTEMS

CITY OF HUTTÖ

SEE SHT C-0 FOR TOPOGRAPHIC SURVEY

SEE SHT C-1 FOR GRADING & DRAINAGE

SEE SHT C-1B FOR DRAINAGE LAYOUT

SEE SHT C-2 FOR STORM SEWER LAYOUT

SEE SHT C-4 FOR PAVING JOINT LAYOUT

SEE SHT C-5 FOR SWPPP LAYOUT

SEE SHT C-2B FOR STORM CALCULATION TABLE

SEE SHT C-3 FOR WATER & SANITARY LAYOUT

SEE SHT C-6 FOR SWPPP NOTES & DETAILS

SEE SHT C-7 FOR GENERAL NOTES & DETAILS

SEE SHT C-8 FOR CITY OF HUTTO NOTES & DETAILS

Scale N.T.S.

T. E. A. A.

NOTES & DETAILS

SEE SHT C-1A FOR GRADING & DRAINAGE (ALTERNATE BID ITEMS)

SEE SHT C-2A FOR STORM SEWER LAYOUT (ALTERNATE BID ITEMS)

SEE SHT C-4A FOR PAVING JOINT LAYOUT (ALTERNATE BID ITEMS)

TEXAS ENGINEERING AND MAPPING CO. 12718 CENTURY DRIVE

STAFFORD, TEXAS 77477 PHONE: 281.491.2525 FAX: 281.491.2535 SURVEYING FIRM NO. 10119000 / ENGINEERING FIRM NO. F-2906 www.team-civil.com

JOB: 266-19

CONSTRUCTION STANDARDS AND DETAILS

least 150 PSI using appropriate adapters.

prior to performing sterilization, quality testing, or pressure testing.

21. All wastewater piping and fittings shall be virgin stock.

BED MANHOLE AND PIPE WITH MINIMUM 8" THICK -

BEDDING MATERIAL (SEE WW-03 NOTE 12)

Page 2 of 2

I. A collection system pipe must be constructed of cast iron, ductile iron, or PVC

II. Vertical separation must be at least two feet between the outside diameters of

III. Horizontal separation must be at least four feet between outside diameters of

I. If a collection system is constructed of cast iron, ductile iron, or PVC with a

a. A minimum distance of six (6) inches between outside diameters of the

c. Collection system pipe joints must be located as far as possible from an

b. A collection system pipe must be below a public water supply pipe.

a collection system pipe within nine feet of a public water supply pipe must be

constructed of cast iron, ductile iron, or PVC pipe with a pressure rating of at

II. If a collection system crosses over a public water supply pipe, each portion of

minimum pressure rating of 150 PSI, the following requirements apply:

B. If a collection system pipe crosses a public water supply pipe, the following

meeting ASTM specifications with at least 150 pounds per square inch (PSI)

requirements apply:

the pipes.

the pipes.

requirements apply:

14 NOV 18 FOR PRICING 10 DEC 18 SITE PLAN RESUBMITTAL 15 MAR 2019 FOR PERMIT 2 JUL 2019 FOR CONSTRUCTION

Date issued/revised

OSBORN & VANE ARCHITECTS &

SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No.

Drawn Checked

ADJUSTMENT RINGS. --- FINISHED GRADI (NOT IN PAVEMENT) CONCRETE GRADE CLEAR OPENING RINGS (SEE NOTE #8). BACKFILL, AS PER 33 3/4" CONSTRUCTION SPECIFICATI PRECAST CONCENTRIC CONCRETE CONE SECTION, AS PER DETAIL WW-08. 6" EXTRUDED BUTYL ADHESIVE TAPE (SEE CONCRETE BASE PER NOTE #9). RUBBER GASKETS AT -FLEXIBLE "SEAL BOOT AS PER ASTM C-923 BED MANHOLE AND PIPE WITH MINIMUM 8" THICK BEDDING MATERIAL (SEE NOTE 12) MANHOLES SHALL BE PRECAST ASTM C478 BELL AND SPIGOT WITH "O" RING JOINTS 2. SEE CONSTRUCTION PLANS FOR MANHOLE SIZE, LOCATION, CONFIGURATION, TYPE OF TOP SECTION, VENTING REQUIREMENTS, PIPE SIZES AND TYPES.

3. SEE SPECIFICATIONS ON MATERIALS AND CONSTRUCTION.

4. ENTIRE INTERIOR OF WASTEWATER MANHOLES TO BE COATED WITH RAVEN 405, OR APPROVED EQUAL, WITH A UNIFORM THICKNESS OF 124 MILS. AND A MINIMUM THICKNESS OF 100 MILS. APPLIED AFTER MANHOLE HAS PASSED THE VACUUM TEST. 5. All manhole covers shall be bouted and casacted, when manholes are located outside of pavement.
6. Manholes to be vented are identified on manhole schedule, reference manhole vent detail.
7. A flow channel shall be constructed inside manhole to direct influent into the flow stream. ALL P.V.C. PIPE SHALL BE REMOVED FROM INVERT.

FRAME ADJUSTMENT HEIGHT SHALL BE FIVE INCHES (5") MINIMUM AND EIGHTEEN INCHES (18") MAXIMUM. . EXTERIOR OF EACH JOINT TO BE WRAPPED IN 6" EXTRUDED BUTYL ADHESIVE TAPE WHEN MANHOLE IS LOCATED IN THE 100-YR FLOODPLAIN.

MANHOLES TO BE DESIGNED TO RESIST LATERAL AND VERTICAL SOIL FORCES RESULTING FROM MANHOLE DEPTH. ADDITIONALLY, MANHOLES LOCATED IN PAVEMENT TO BE DESIGNED FOR H20 TRAFFIC LOADING.

11. BASE SECTION SHALL BE DESIGNED FOR H-20 LOADING, PLUS EARTH LOAD AT 130 PCF. DRAWING NO.WW-CITY OF HUTTO

CONSTRUCTION STANDARDS AND DETAILS

STANDARD MANHOLE - SECTION

HUTTO UTILITY SYSTEMS

STANDARD FRAME AND COVER,

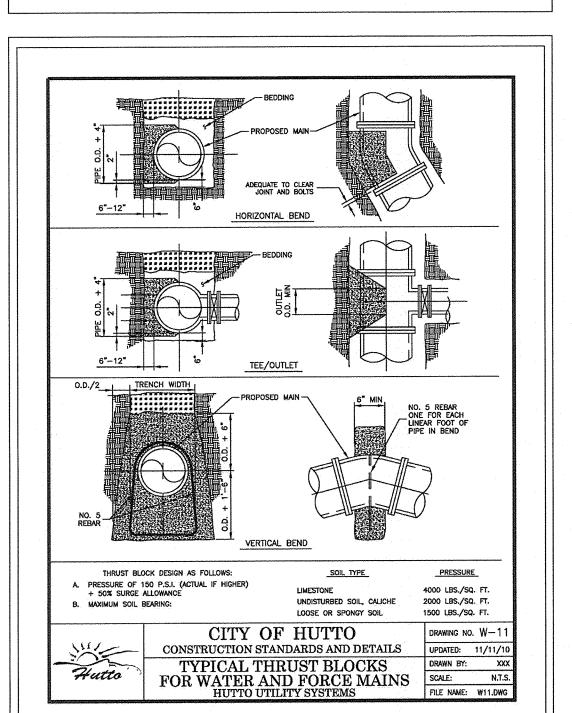
UPDATED: 09/30/10

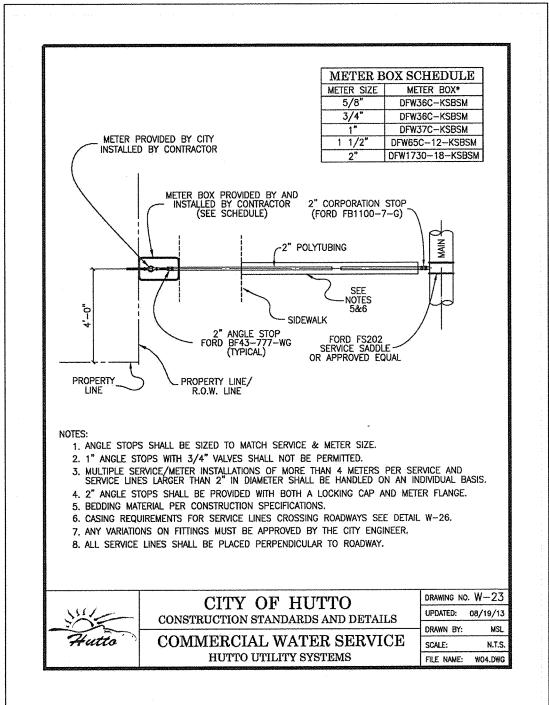
18. The Contractor shall provide the engineer and the city not less than 24 hours notice prior to CLASS A, 3000 PSI CONCRETE FINISHED GRADE. AS PER DETAILS WW-07 AND WW-07A. POURED AROUND MANHOLE performing sterilization, quality testing, or pressure testing. 19. The Contractor shall not open or close any valves unless authorized by the City of Hutto. 20. All valve boxes and covers shall be cast iron per City of Hutto standard details. 21. All manholes shall be concrete with cast iron ring and cover. All manholes located outside of pavement shall have bolted and gasketed covers. Concrete manholes to be coated per standard detail and construction specifications. Tapping of fiberglass manholes shall not be 22. All fire lines shall be ductile iron pipe (AWWA C-100, Class 200). 23. All fire hydrants shall be silver in color including bonnet and installed per City of Hutto 24. All water piping and fittings shall be virgin stock. 25. All mechanical restraints shall be installed per manufacturer's specifications. 26 Along State Highways, water lines are required on both sides of the roadway. New water lines crossing existing streets shall be placed by boring. A steel casing shall be required under major and minor collector roadways, arterial roadways and State Highway. Open cut excavation will not be allowed to cross existing streets, unless approved by the City Engineer. 27. All new water pipes must have detectable tape per City of Hutto Standard Detail. 28. All automatic flush valves must use a meter to measure water loss. 29. Tracer wire will be tested and must work correctly before City acceptance of infrastructure. 30. All reduced size taps shall be made using an epoxy coated fabricated steel tapping sleeve with stainless steel bolts, or a stainless steel full circle tapping sleeve with ductile iron flange.

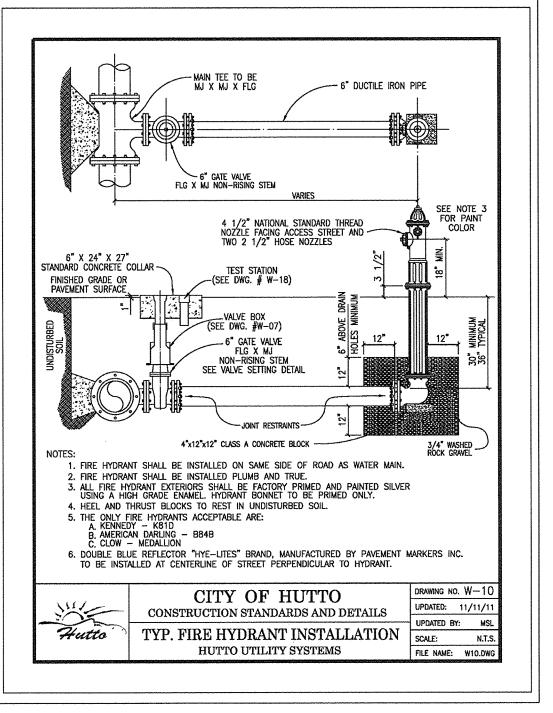
a collection system pipe within nine feet of a public water supply pipe must be constructed of cast iron, ductile iron, or PVC pipe with a pressure rating of at 13. The Contractor must obtain a temporary water meter from the City of Hutto Utility Billing 14. Contractor to schedule water valve closure through City of Hutto: Department of Public Works Tracer wirer must be encased in pipe. - Utility Division with advance notice of 7 days. Contractor to contact public works at phone # 512-759-4016 and notify construction inspector. Water valve closure will only be scheduled for Tuesday through Thursday. Contractor to notify all businesses and residents affected by valve closures. Closures must be coordinated to minimize effects on existing customers with 15. Line flushing or any activity using a large quantity of water must be scheduled with the City of Hutto. Contractor will be responsible for tracking the amount of water used during flushing 16. The Contractor, at his expense, shall perform sterilization of all potable water lines and shall provide all equipment necessary (including test gages), supplies (including concentrated chlorine disinfection material) and necessary labor required for the sterilization procedure. The sterilization procedure shall be monitored by the Engineer and a City of Hutto Construction Inspector. Water samples will be collected to verify each treated line has Page 3 of 3

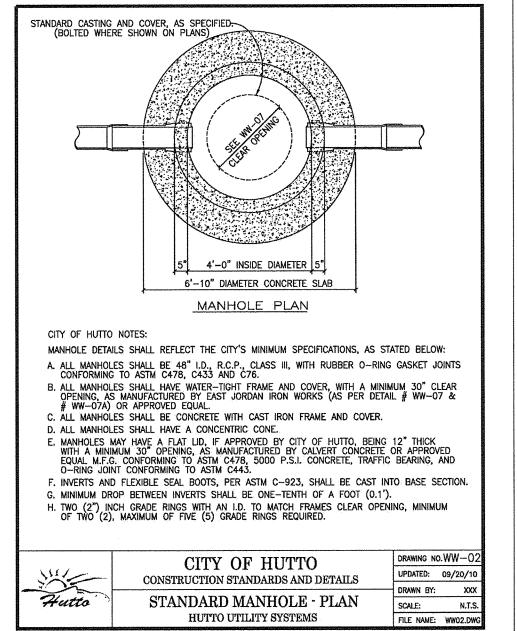
attained an initial chlorine concentration of 50 ppm. 17. An independent qualified lab, at the Contractor's expense, shall perform quality testing for all wastewater pipe installed and pressure hydrostatic testing of all water lines constructed. The contractor shall provide all equipment (including pumps and gages), supplies, and labor necessary to perform the tests. A City of Hutto Construction Inspector must be present for all

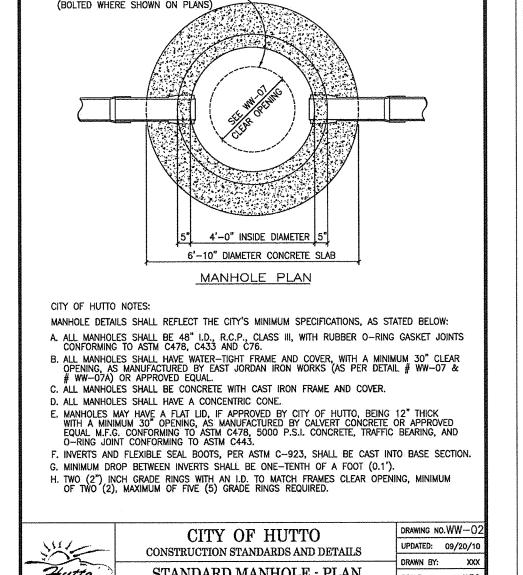
Page 2 of 3

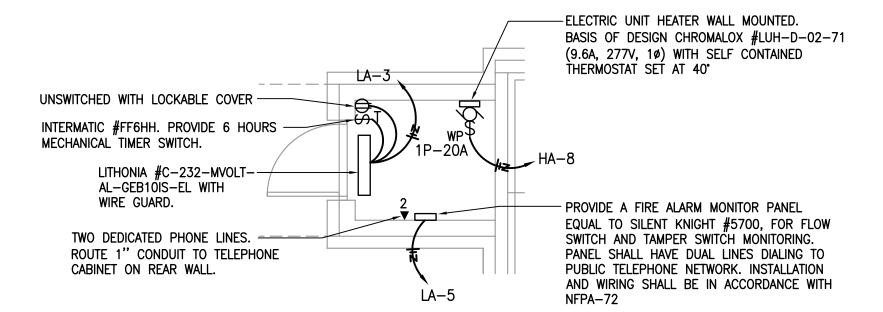












ENLARGED SPRINKLER RM. - BLDG. 'A'

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

G.C. IS RESPONSIBLE FOR CONNECTION OF ALL UTILITIES, ESTABLISHING ACCOUNTS, THEN TRANSFERRING THESE TO LANDLORD NAME UPON RECEIPT OF CERTIFICATE OF OCCUPANCY.

COORDINATE ALL UTILITES WITH TENANT APPROVED INTERIOR FINISHED—OUT DRAWINGS PRIOR TO COMMENCEMENT OF WORK.

COORDINATE EXACT LOCATION OF ALL EQUIPMENT, WIREWAYS, PANELS, ETC. WITH UTILITY COMPANIES/ OWNER PRIOR TO INSTALLATION.

CONTRACTOR TO PAINT ALL EXTERIOR GUTTERS, PANEL COVERS, CONDUIT, CABINETS, ETC. TO MATCH BACK OF BUILDING.

RACEWAY.

ALL ELECTRIC SHALL BE IN UL APPROVED

GENERAL NOTES

- 1. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- 2. ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
- 3. PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS/BALLASTS IN EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS.
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- 6. ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN U.O.N.
- 7. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
- 8. EXTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED VIA PHOTO CELL/TIME SWITCH AND AN OVERRIDE SWITCH. ALL EXTERIOR LUMINAIRES AND ELECTRICAL DEVICES SHALL BE LISTED AS WEATHERPROOF TYPE.

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- 2 ROUTE LIGHTING BRANCH CIRCUIT THRU LIGHTING CONTACTOR IN LIGHTING CONTROL CABINET "LCCA". SEE PANEL SCHEDULES AND DETAIL 1/E3.0 FOR MORE INFORMATION.
- 3 PROVIDE (1) 2" EMPTY CONDUIT WITH PULL WIRE FOR FUTURE ELECTRICAL SERVICE. ROUTE AT BAR JOIST LEVEL. CONTRACTOR TO COORDINATE TERMINATION OF CONDUIT WITH OWNER PRIOR TO INSTALLATION, AND TO CAP AND TAG EACH END.
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Date issued/revised

14 SEP 2018 FOR PERMIT & REVIEW NOVEMBER 12, 2018 REVISIONS 1

02 JUL 2019 FOR CONSTRUCTION

13 MAY 2019 BLDG PERMIT COMMENTS 3

15 MAR 2019 FOR PERMIT



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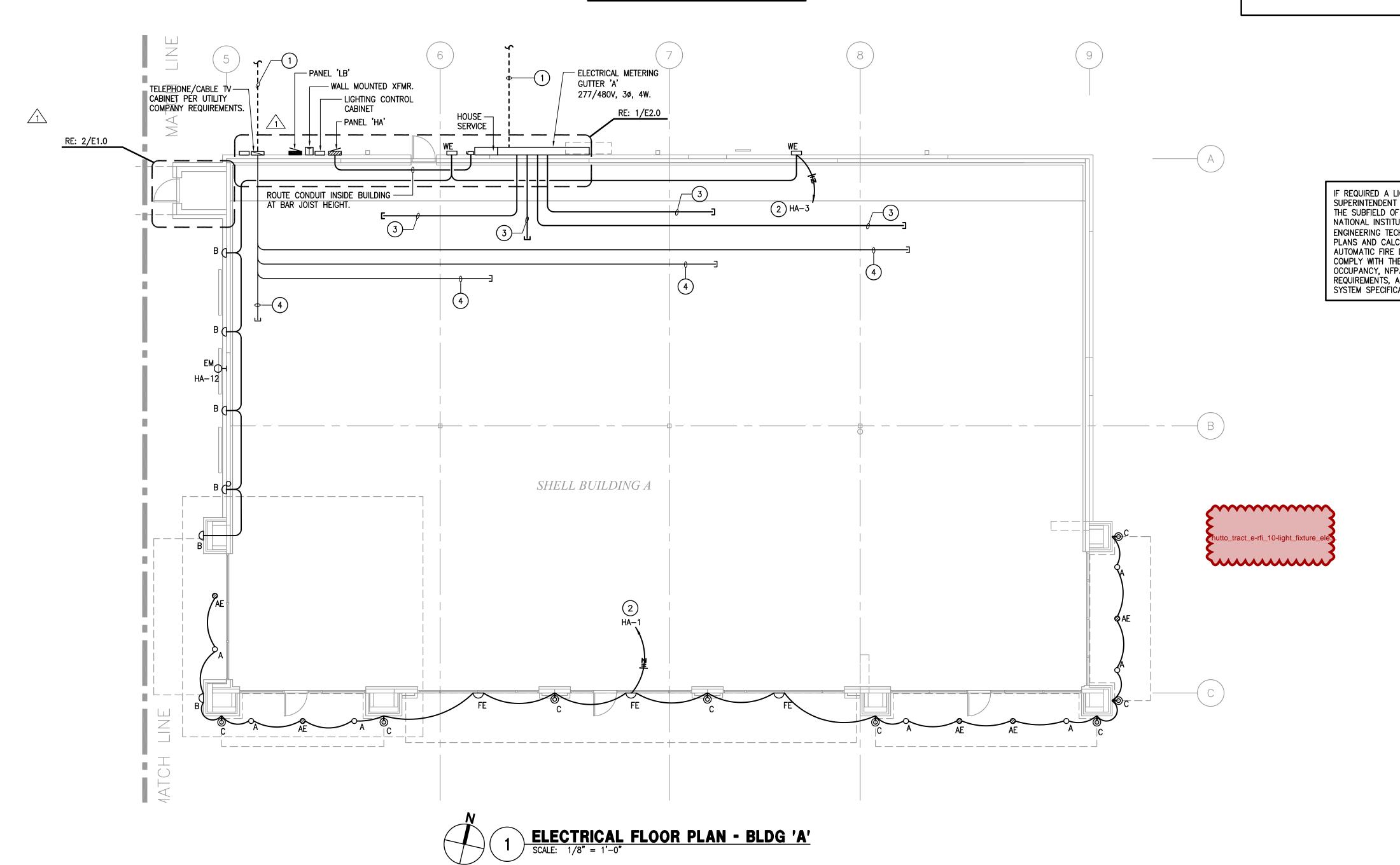
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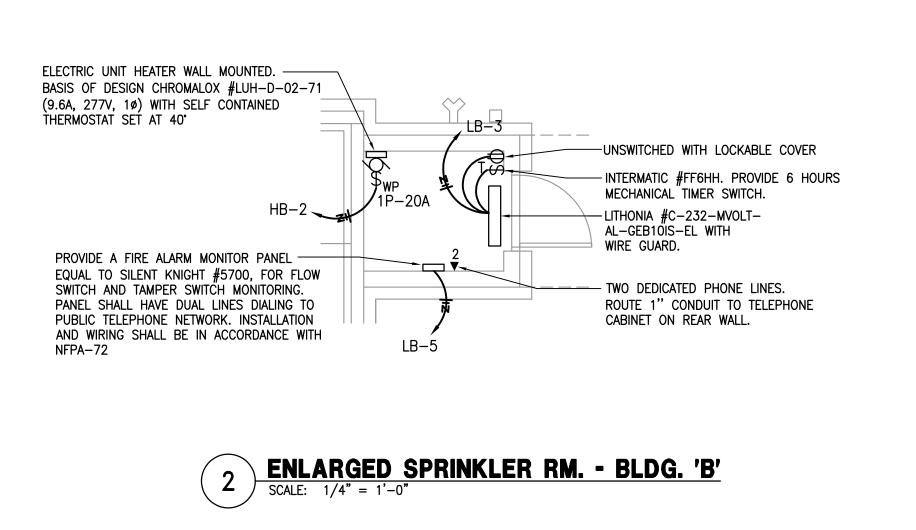
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Drawn Checked

ELECTRICAL FLOOR PLAN

E1.0





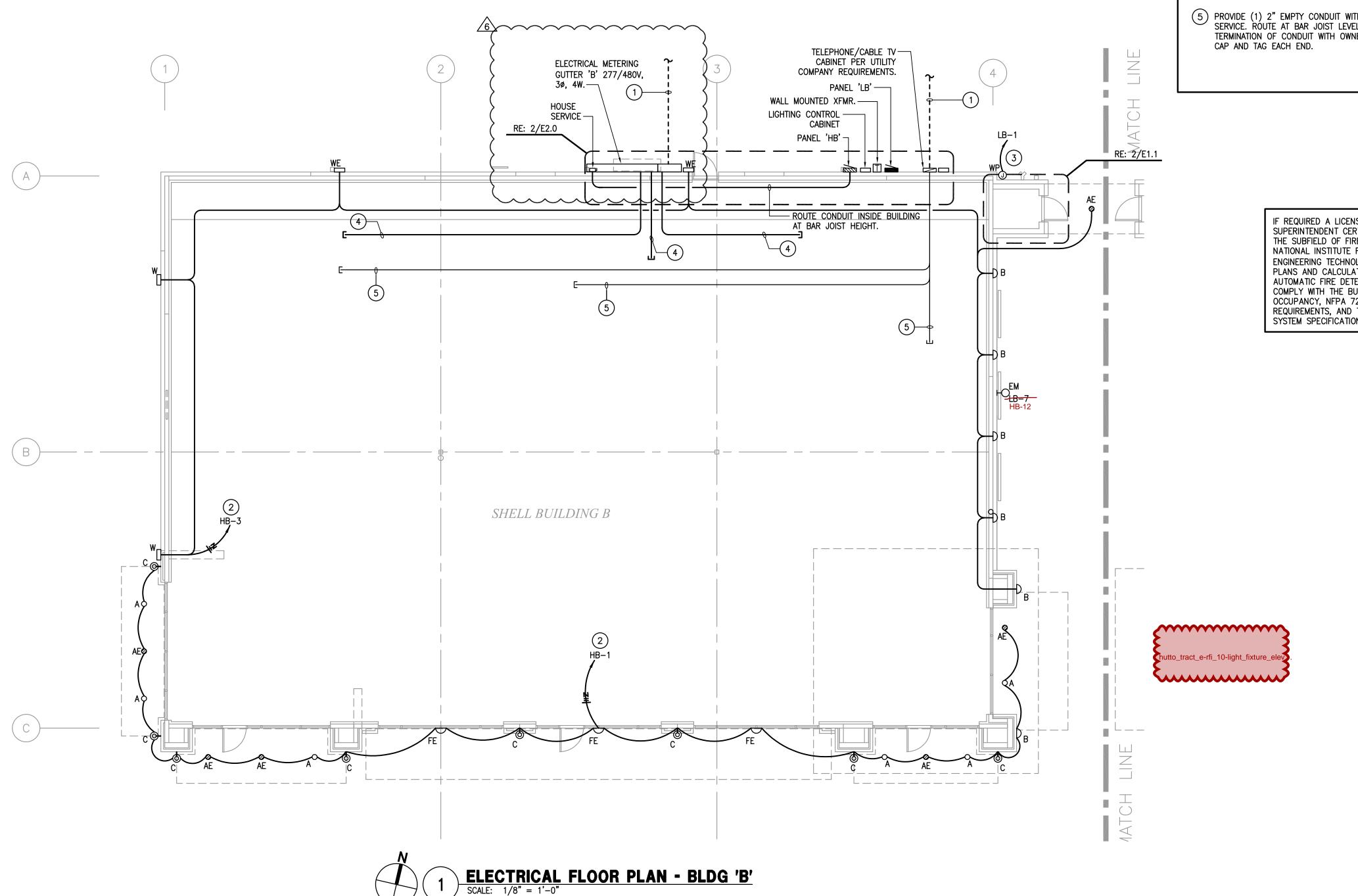
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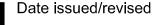
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14 SEP 2018 FOR PERMIT & REVIEW 15 MAR 2019 FOR PERMIT 13 MAY 2019 BLDG PERMIT COMMENTS 3 02 JUL 2019 FOR CONSTRUCTION 25 OCT 2019 ELECTRICAL REVISIONS 6





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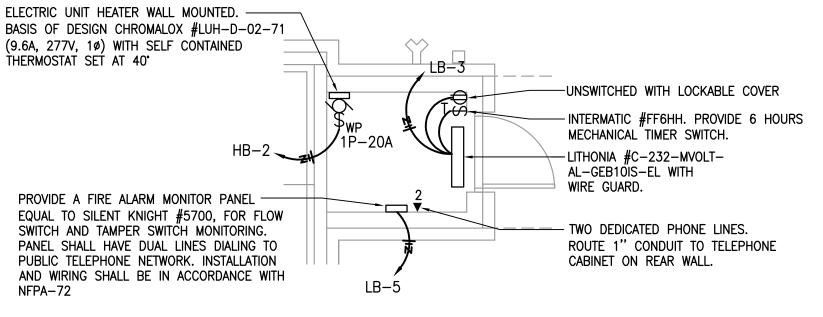
SHELL BUILDING & SITE WORK DEVELOPMENT

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Checked

ELECTRICAL FLOOR PLAN

E1.1



ENLARGED SPRINKLER RM. - BLDG. 'B'
SCALE: 1/4" = 1'-0"

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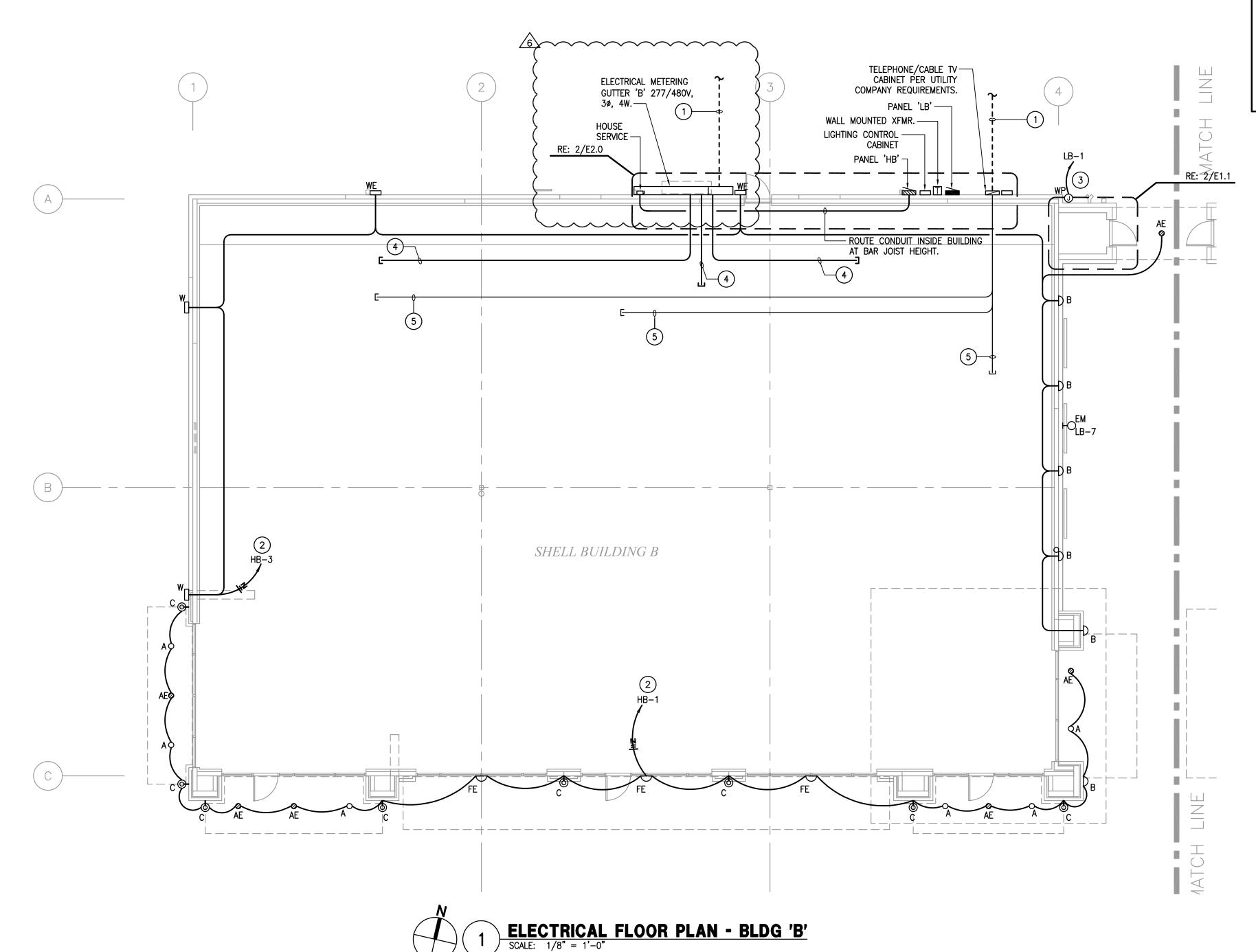
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14 SEP 2018 FOR PERMIT & REVIEW 15 MAR 2019 FOR PERMIT 13 MAY 2019 BLDG PERMIT COMMENTS 3 02 JUL 2019 FOR CONSTRUCTION 25 OCT 2019 ELECTRICAL REVISIONS 6





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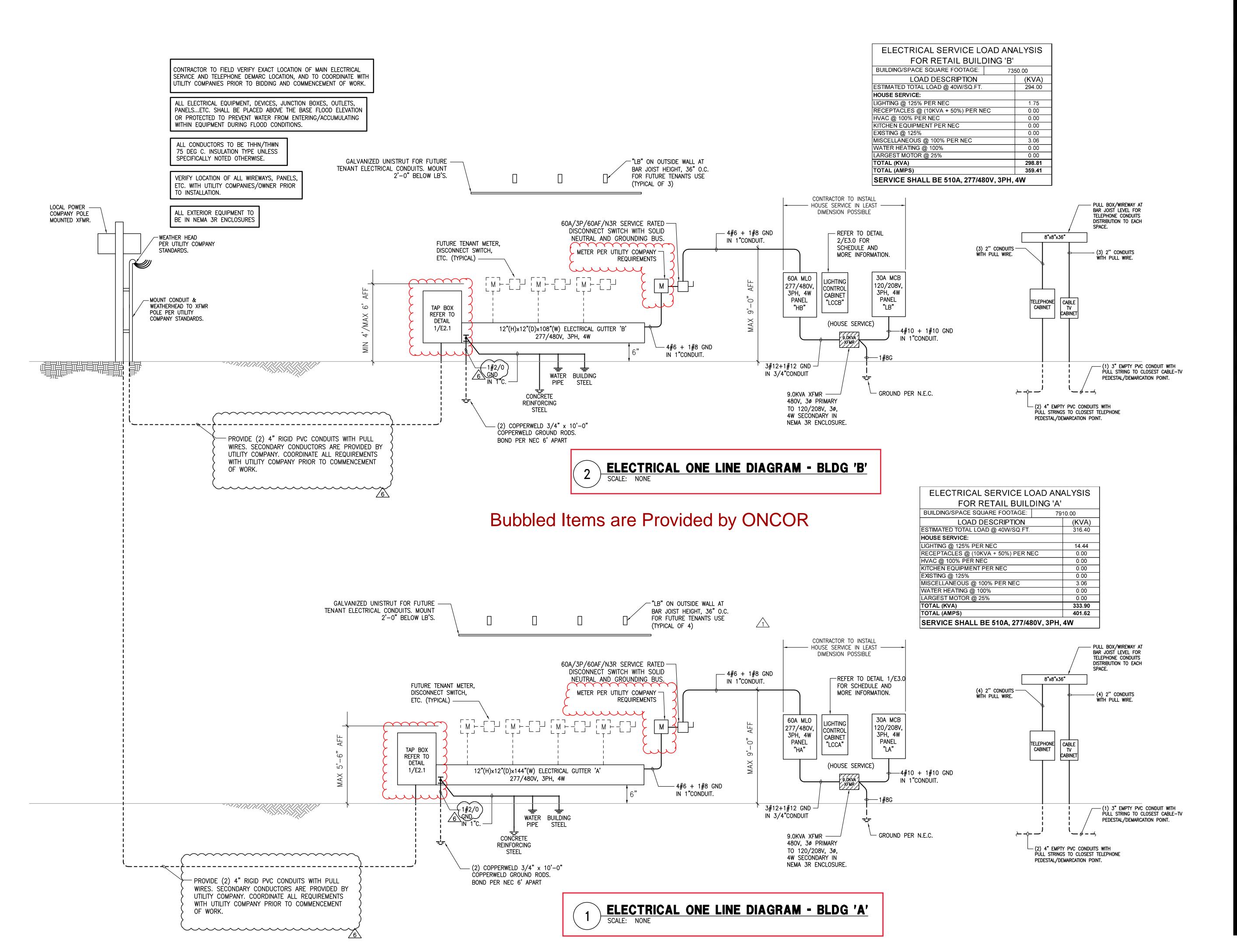
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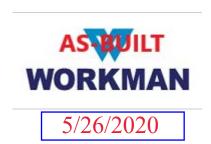
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ELECTRICAL FLOOR PLAN

E1.1



14 SEP 2018 FOR PERMIT & REVIEW NOVEMBER 12, 2018 REVISIONS 1 NOVEMBER 14, 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 02 JUL 2019 FOR CONSTRUCTION 25 OCT 2019 ELECTRICAL REVISIONS 6





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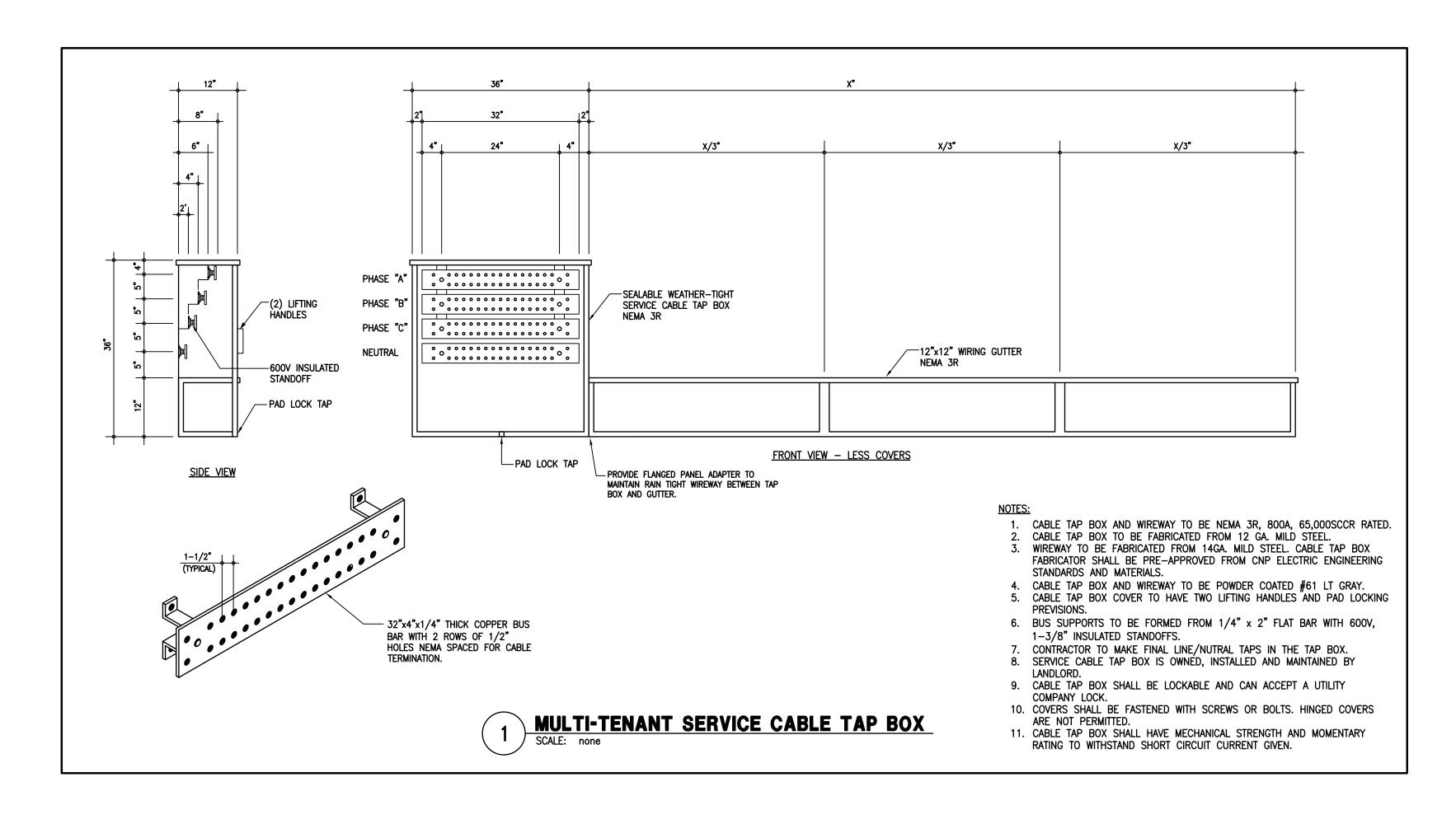
ELECTRICAL ONE LINE DIAGRAM - BLDG. 'A' & 'B'

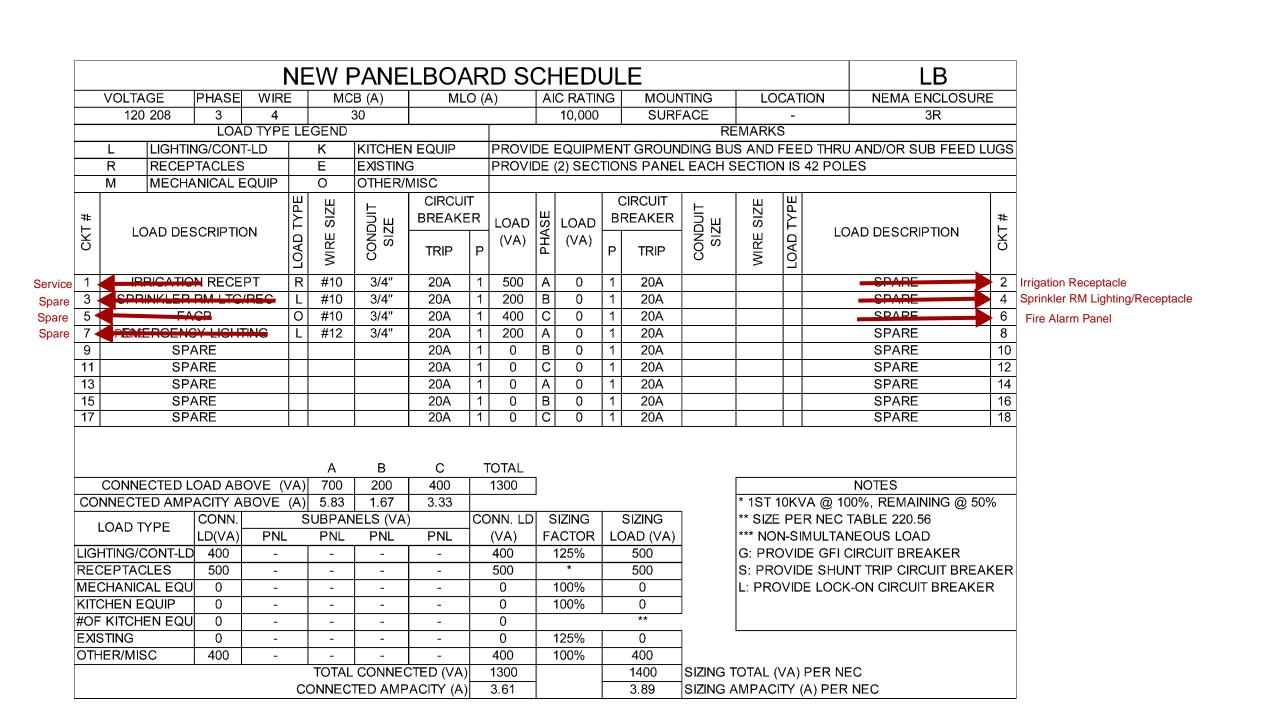
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| | | PTACLES | | | E | EXISTING | | | PROVI | DE I | (2) SEC | 1OIT | NS PANEI | _ EACH S | ECTION | V IS | 42 POLES | |
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| | | | | LOA | WIRE | | TRIP | Р | | | | Р | TRIP | | WIRE | LOAD | | |
| 1 | | PY LTG | | L | #10 | 3/4" | 20A | 1 | 800 | Α | 1200 | 3 | 30A | 1" | #8 | L | MONUMENT SIGN | 2 |
| 3 | WALL PA | | G | 빒 | #10 | 3/4" | 20A | 11 | 250 | В | 1200 | | | | | | - | 4 |
| 5 | SITE L | IGHTING | | L | #8 | 1" | 20A | 2 | 2125 | С | 1200 | | | 2 | | | - | _ 6 |
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| 11 | 0.0 | - | | | | | - | 1 | 1125 | С | 200 | 1 | 20A | 3/4" | #12 | Ļ | EMERG LIGHT | 1 |
| 13 | | ARE | | | | | 20A | 1 | 0 | Α | 0 | 3 | 20A | SEEF | KISEK | 0 | 9KVA XFMR | 1 |
| 15 17 | | ARE | | | | | 20A | 1 | 0 | В | | | | | | | PANEL "LA" | 1 |
| 19 | | ARE | | | | | 20A 20A | 1 | 0 | C | | | | | | | - SPACE | 1 2 |
| 21 | | ARE | | | | | 20A 20A | 1 | 0 | A B | | | | | | | SPACE | 2 |
| 23 | | ARE | | | | | 20A 20A | 1 | 0 | С | | | | | | - | SPACE | 2 |
| 25 | | ARE | | | | | 20A 20A | | 0 | A | | | | | | | SPACE | 2 |
| 27 | | ARE | | | | | 20A 20A | 1 1 | 0 | В | | | | | | | SPACE | 2 |
| 29 | | ARE | | \vdash | | | 20A 20A | | 0 | С | | | | | | | SPACE | 3 |
| | <u> </u> | <i>7</i> | | | A | В | C | <u> </u> | TOTAL | U | | | | | | <u> </u> | 3.762 | |
| | CONNECTED | OAD AR | OVE (| /A \ | | 2575 | 4650 | | 14010 | 1 | | | | | | | NOTES | — |
| | NECTED AME | | | | | 9.30 | 16.79 | | 14010 | J | | | | | * 1ST 1 | ٥K١ | VA @ 100%, REMAINING @ 50 | 7% |
| | | CONN. | | ` ' | | IELS (VA | | | DNN. LD | 2 | SIZING | | SIZING | 1 | | | R NEC TABLE 220.56 | 3 70 |
| L | OAD TYPE | LD(VA) | LA | | PNL | PNL | PNL | ┤ `` | (VA) | | | ı | DAD (VA) | | | | MULTANEOUS LOAD | |
| LIGH | ITING/CONT-LI | | 200 | | - | - | - | + | 11550 | | 125% | | 14438 | | | | DE GFI CIRCUIT BREAKER | |
| | EPTACLES | 0 | 0 | \dashv | | - | - | T | 0 | | * | | 0 | | | | DE SHUNT TRIP CIRCUIT BREA | ٩KE |
| | CHANICAL EQU | _ | 0 | \dashv | - | - | _ | T | 0 | | 100% | | 0 | 1 | | | E LOCK-ON CIRCUIT BREAKE | |
| | HEN EQUIP | 0 | 0 | \neg | - | - | | 1 | 0 | - | 100% | | 0 | 1 | | | | |
| | KITCHEN EQU | 0 1 | 0 | \neg | - | _ | | 1 | 0 | | | | ** | ı | | | | |
| EXIS | TING | 0 | 0 | | - | - | _ | | 0 | <u> </u> | 125% | | 0 |] | | | | |
| | ER/MISC | 2660 | 400 | | - | - | - | 1 | 3060 | | 100% | | 3060 | 1 | | | | |
| | | <u>, </u> | 1 | | TOTAL | CONNEC | CTED (VA | | 14610 | | | | 17498 | SIZING T | OTAL (| VA) | PER NEC | |
| | | | | CC | DNNEC. | TED AMP | ACITY (A |) <u> </u> | 17.57 | 1 | | | 21.05 | SIZING A | MPACI | TY (| (A) PER NEC | |

| | | | | | <u> </u> | ١E | EW F | PANE | LBOA | ۱R | D S | CH | HEDI | JL | _E | | | | | LA | |
|--------------------|------|---------|---------|----------|----------|-----------|--------|----------|------------------|----|--------------|----------|----------|-----|-------------------|----------|--------|-----------|------------|-----------------|---------|
| | | VOLTA | GE | PHASE | | | | B (A) | ML | | | | IC RATIN | | MOUN | TING | LC | DCAT | ION I | NEMA ENCLOSU | RE |
| | | | 208 | 3 | 4 | | | 30 | | | , | | 10,000 | | SURF | ACE | | - | | 3R | |
| | | | | LOA | D TYPE | LE | GEND | | | | | | | | | RI | MARK | (S | | | |
| | | L | 1 | NG/CON | | | | KITCHEN | | | 1 | | | | | | | | | D/OR SUB FEED | LUGS |
| | | R | | PTACLES | | | E | EXISTING | | | PROVI | DE | (2) SEC | TIO | NS PANE | L EACH S | SECTIO | ON IS | 42 POLES | | |
| | | M | MECH | ANICAL E | EQUIP | | 0 | OTHER/I | | | | | | | | | _ | | | | |
| | # - | | | | | IYPE | SIZE | TING III | CIRCUI BREAKE | | LOAD | SE | LOAD | | CIRCUIT REAKER | TING III | SIZE | ΓΥPE | | | # |
| | CKT | LC | DAD DE | SCRIPTIO | ON | LOAD TYPE | WIRE | CONDUIT | TRIP | Р | LOAD (VA) | PHA | (VA) | Р | TRIP | CONDUIT | WIRE | LOAD TYPE | LOAD | DESCRIPTION | # CKT # |
| Service Receptacle | 1 • | ļ | | ADE | | | | | 20A | 1 | 1 | Α | 0 | 1 | 20A | | | | | SPARE | 2 |
| | 3 | SPR | | RM LTG | /REC | L | #10 | 3/4" | 20A | 1 | 1 | В | 0 | 1 | 20A | | | | | SPARE | 4 |
| | 5 | | | ACP | | 0 | #10 | 3/4" | 20A | 1 | | С | 0 | 1 | 20A | | | | | SPARE | 6 |
| | 7 | | | ARE | | | | | 20A | 1 | 1 | Α | 0 | 1 | 20A | | | | | SPARE | 8 |
| | 9 | | | ARE | | | | | 20A | 1 | 0 | В | 0 | 1 | 20A | | | | | SPARE | 10 |
| | 11 | | | ARE | | | | | 20A | 1 | 0 | С | 0 | 1 | 20A | | | | | SPARE | 12 |
| | 13 | | | ARE | | | | | 20A | 1 | | Α | 0 | 1 | 20A | | | | | SPARE | 14 |
| | 15 | | | ARE | | | | | 20A | 1 | | В | 0 | 1 | 20A | | | | | SPARE | 16 |
| | 17 | | SP. | ARE | | | | | 20A | 1 | 0 | С | 0 | 1 | 20A | | | | | SPARE | 18 |
| | | CONNE | CTED L | OAD AB | OVE (V | 'A) | A 0 | B 200 | C 400 | | FOTAL 600 | 1 | | | | | | | NO | TES | |
| | CO | NNECTE | ED AMP | ACITY A | BOVE | (A) | 0.00 | 1.67 | 3.33 | | | | | | | | * 1ST | 10KV | /A @ 100%, | REMAINING @ 5 | 50% |
| | | _OAD T | VDE | CONN. | | S | UBPAN | ELS (VA) |) | CC | DNN. LD | S | SIZING | | SIZING | | | | R NEC TABI | | |
| | ı | LUAD I | TPE | LD(VA) | PNL | | PNL | PNL | PNL | | (VA) | F/ | ACTOR | LC | OAD (VA) | | *** NC | N-SI | MULTANEO | US LOAD | |
| | LIGH | HTING/C | CONT-LE | 200 | - | | - | - | - | | 200 | | 125% | | 250 | | G: PF | ROVID | E GFI CIRC | UIT BREAKER | |
| | REC | EPTAC | LES | 0 | _ | | - | - | - | | 0 | | * | | 0 | 1 | S: PR | OVID | E SHUNT T | RIP CIRCUIT BRE | AKER |
| | ME | CHANIC | AL EQU | 0 | _ | | - | - | - | | 0 | | 100% | | 0 | 1 | L: PR | OVIDI | E LOCK-ON | CIRCUIT BREAK | ER |
| | KITO | CHEN E | QUIP | 0 | - | | - | - | - | | 0 | | 100% | | 0 | 1 | | | | | |
| | | | EN EQL | | - | | - | - | - | | 0 | | | | ** | _ | | | | | |
| | | STING | | 0 | _ | | - | - | - | | 0 | | 125% | | 0 |] | | | <u> </u> | | |
| | OTH | IER/MIS | SC | 400 | - | | - | - | - | | 400 | <u> </u> | 100% | | 400 | | | | | | |
| | | | | | | | | | CTED (VA) | | 600 | 1 | | | 650 | _ | | | PER NEC | _ | |
| | | | | | | CC | DNNEC. | TED AMP | ACITY (A) | | 1.67 | | | | 1.80 | SIZING | AMPAC | CITY (| A) PER NEC | <u> </u> | |

| | | | | 1 | NE | W F | PANE | LBOA | ۱R | D S | CH | HEDI | JL | E | | | | | HB | |
|---------|-------|------------|----------|--------|----------|-------|-----------------------------|------------------|--------------|--------------|------|---------|-------|-------------------|----------|----------|-------------|---------|-----------------------|------------|
| , | VOL | TAGE | PHASE | WIRE | Ξ Τ | МС | B (A) | ML | 0 (/ | (<i>F</i> | ΑI | C RATIN | IG | MOUN | ITING | LO | CAT | ION | NEMA ENCLOSURE | = |
| | 2 | 77 480 | 3 | 4 | | | | | 60 | <u> </u> | | 22,000 | | SURF | ACE | | - | | 3R | |
| | | | LOAI | D TYPE | ELE | GEND | | L | | | | | | | RE | MARK | 3 | | | |
| | L | LIGHTIN | IG/CONT | Γ-LD | | K | KITCHEN | N EQUIP | | PROVI | DE I | EQUIPM | ΙΕΝ | IT GROUN | DING BU | S AND I | EE | D THRU | AND/OR SUB FEED LU | JGS |
| | R | RECEP | TACLES | | | E | EXISTING | 3 | | PROVI | DE (| (2) SEC | TIOIT | NS PANEL | EACHS | SECTION | N IS | 42 POL | ES | |
| | М | MECHA | NICAL E | QUIP | | 0 | OTHER/I | MISC | | | | - | | | | | | | | |
| # | | | | | TYPE | SIZE |)UIT | CIRCUI BREAKE | | LOAD | SE | LOAD | l | CIRCUIT REAKER | UIT E | SIZE | TYPE | | | # |
| K K | | LOAD DES | SCRIPTIC | DΝ | LOAD | WIRE | CONDUIT | TRIP | Р | LOAD (VA) | PHA | (VA) | Р | TRIP | CONDUIT | WIRE | LOAD - | LO | AD DESCRIPTION | CKT |
| 1 | | CANO | PY LTG | | | #10 | 3/4" | 20A | 1 | 800 | Α | 2660 | 1 | 20A | 3/4" | #10 | 0 | SPRINK | LER RM UNIT HEATER | 2 |
| 3 | | WALL PA | CKS LT | G | | #10 | 3/4" | 20A | 1 | 400 | В | | | | | | | | SPACE | 4 |
| 5 | | SPA | ARE | | | | | 20A | 2 | 0 | С | | | | | | | | SPACE | 6 |
| 7 | | | - | | | | | - | | 0 | Α | | | | | | | | SPACE | 8 |
| 9 | | SPA | ARE | | | | | 20A | 2 | 0 | В | | | | | | | | SPACE | 10 |
| 11 | | | - | | | | | - | | 0 | С | | | | | | | | ErSeP & CEy Lighting | 12 |
| 13 | | SPA | ARE | | | | | 20A | 1 | 0 | Α | 0 | 3 | 20A | SEE F | RISER | 0 | | 9KVA XFMR | 14 |
| 15 | | SPA | ARE | | | | | 20A | 1 | 0 | В | | | | | | | | PANEL "LB" | 16 |
| 17 | | SPA | ARE | | | | | 20A | 1 | 0 | С | | | | | | | | - | 18 |
| | CONI | NEOTEDI | 040.40 | | /A \ | A | B 400 | C 0 | 1 | OTAL 3860 | 1 | | | | | | | | NOTES | |
| | | NECTED L | | • | | | 1.44 | 0.00 | - | 3000 | | | | | | * 1CT 1 | | /A @ 10 | 0%, REMAINING @ 50% | 1/ |
| CON | NINEC | JIED AIVIP | CONN. | BOVE | ` ' | | I <u>I 1.44</u> IELS (VA | | 00 | NN. LD | - | IZING | | SIZING | Ī | I . | | _ | rable 220.56 | / 0 |
| L | OAD. |) TYPE | LD(VA) | LB | | PNL | PNL |) PNL | 100 | (VA) | | ACTOR | l | DAD (VA) | | 1 | | | NEOUS LOAD | |
| ПСП | ITING | S/CONT-LD | \ / | 200 | | - INL | - FINE | - FINE | - | 1400 | | 125% | | 1750 | | 1 | | | CIRCUIT BREAKER | |
| | | ACLES | 0 | 0 | _ | | _ | _ | | 0 | | * | | 0 | | 1 | | | NT TRIP CIRCUIT BREAK | (FR |
| | | IICAL EQU | • | 0 | _ | | _ | _ | - | 0 | - | 100% | | 0 | | 1 | | | -ON CIRCUIT BREAKER | |
| | | EQUIP | 0 | 0 | _ | | _ | _ | + | 0 | | 100% | | 0 | | | עוי י | L LOOK | ON OINOUN BINEAREI | ` |
| | | HEN EQU | | 0 | \dashv | | _ | _ | 1 | 0 | | .0070 | | ** | _ | | | | | |
| EXIS | _ | | 0 | 0 | \dashv | _ | _ | _ | 1 | 0 | ٠ | 125% | | 0 | | | | | | |
| OTH | | | 2660 | 400 | | | _ | _ | | 3060 | | 100% | | 3060 | | | | | | |
| J 11 11 | | | | | | TOTAL | CONNEC | TED (VA) | 1 | 4460 | | | | | SIZING 1 | ΓΟΤΑL (\ | / A) | PER NE | EC . | |
| | | | | | CC | | | ACITY (A) | | 5.36 | 1 | | - | 5.79 | SIZING A | • | | | | |





14 SEP 2018 FOR PERMIT & REVIEW NOVEMBER 12, 2018 REVISIONS 🛕 NOVEMBER 14, 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 02 JUL 2019 FOR CONSTRUCTION





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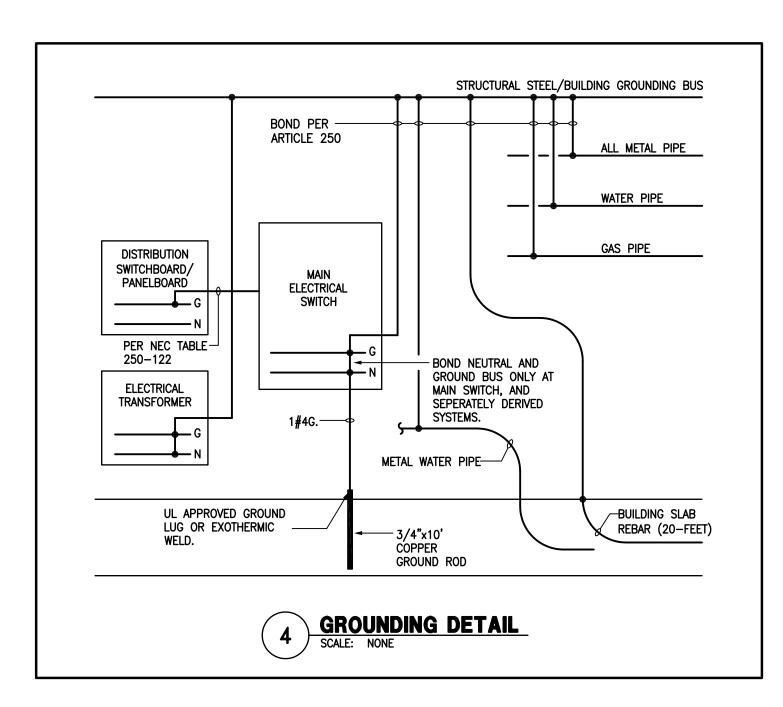
SHELL BUILDING & SITE WORK DEVELOPMENT

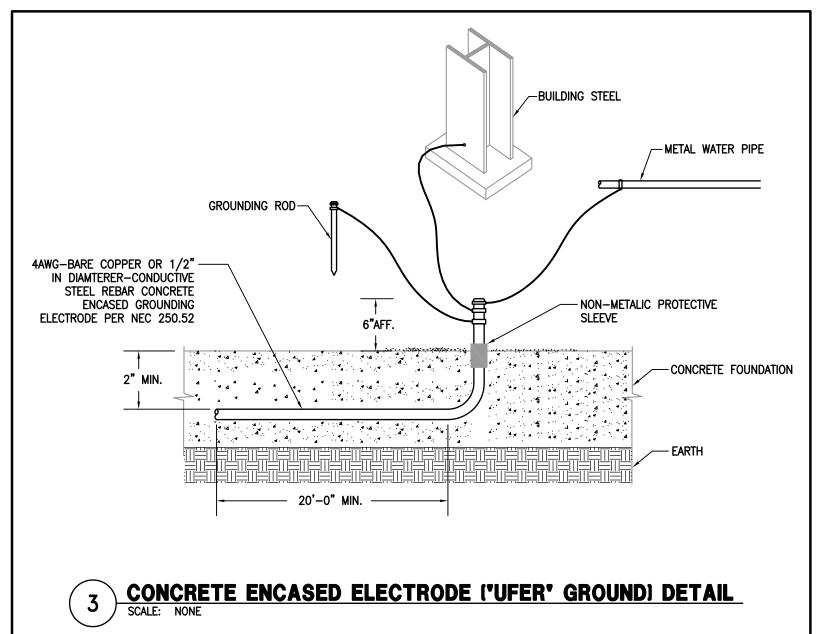
720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

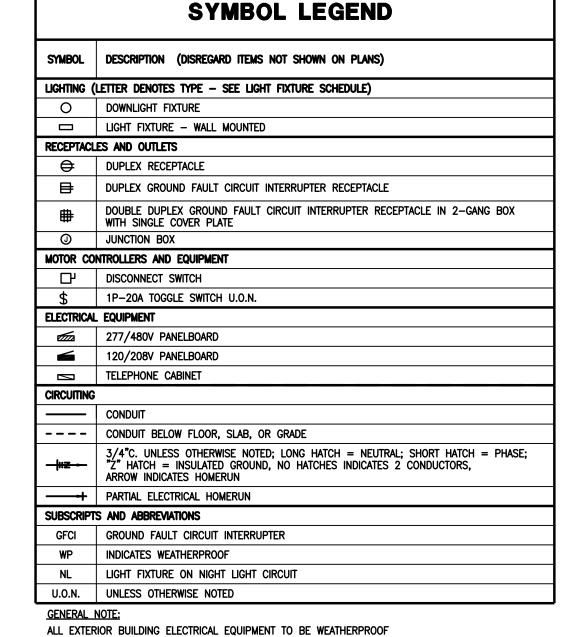
Project No. Drawn Checked

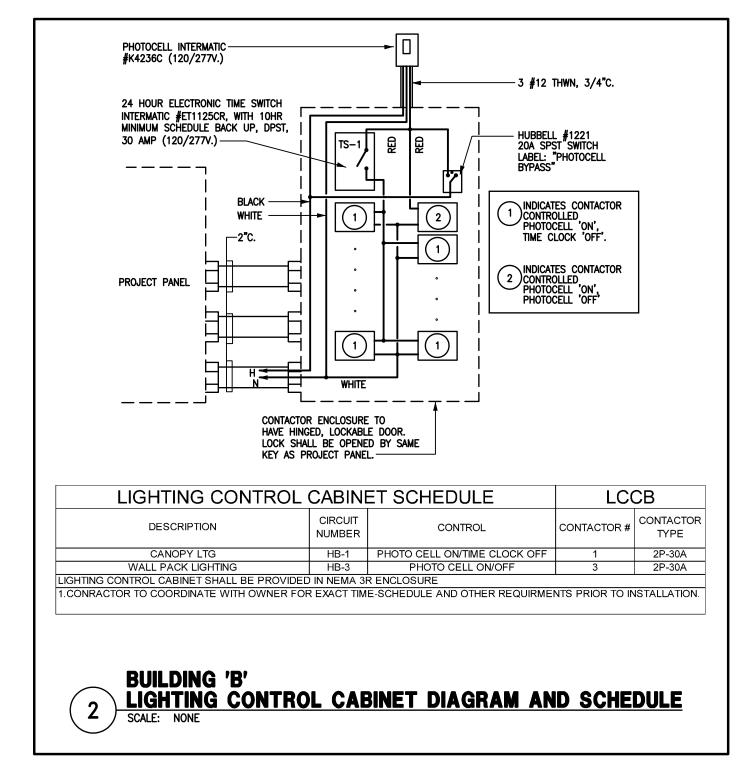
> **ELECTRICAL PANEL** SCHEDULES, AND DETAIL

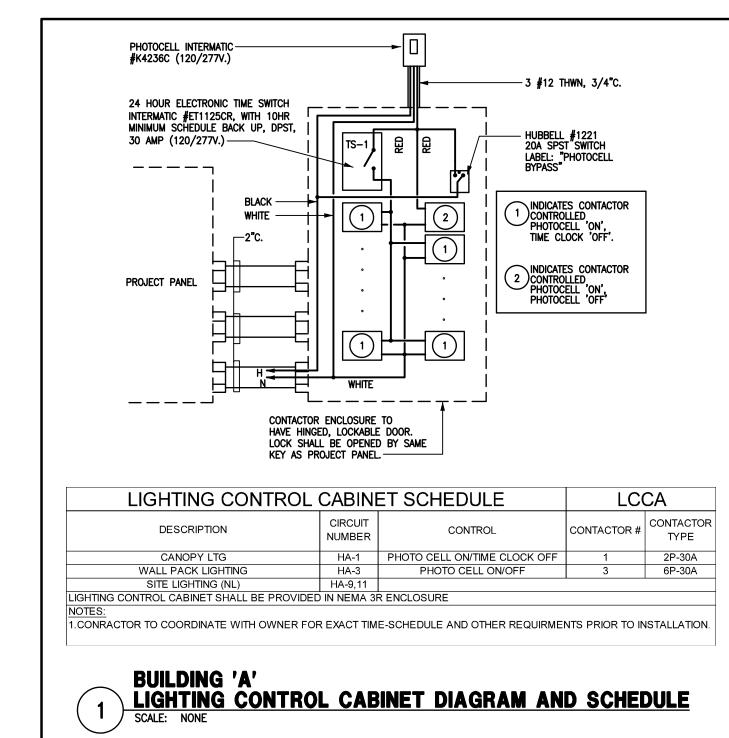
E2.1











LIGHTING FIXTURE SCHEDULE FIXTURE LAMP **MANUFACTURER** CATALOG NO. BALLAST/DRIVER **MOUNTING** LOCATION **DESIGNATION** WATTAGE NO. TYPE COLOR LUMENS WATT GOTHAM EVO-40/20-8AR-MWD-LD-277 LED 277 ELECTRONIC RECESSED EXTERIOR CANOPY 4000 2000 43 **ELECTRONIC WITH** 277 GOTHAM LED 4000 2000 ΑE EVO-40/20-8AR-MWD-LD-277 41 RECESSED EXTERIOR CANOPY EMERGENCY BATTERY PACK LED BEGA 4000 277 ELECTRONIC 33-344-LED 799 16.9 WALL EXTERIOR WALL SCONCE LOUVERED SHADES BASELITE CORP. LED 4000 6000 277 ELECTRONIC EXTERIOR WALL SCONCE 25 27 WALL L216-41-CL4-LED25W-4K-277-WM10 **ELECTRONIC WITH BATTERY** EM LED 277 10.8 WALL LITHONIA 10.8 AFN-EXT EMERGENCY LIGHTING BACK-UP **ELECTRONIC WITH BATTERY** FE LITHONIA WSQ-LED-P2-40K-SR2-MVOLT LED 4000 3000 29 WALL EXTERIOR CANOPY BACK-UP LED W LITHONIA WST-LED-P3-40K-VW-MVOLT 4000 6689 58 277 ELECTRONIC WALL EXTERIOR WALL PACK ELECTRONIC WITH BATTERY WE LITHONIA WST-LED-P3-40K-VW-MVOLT-E7WH LED 6689 277 WALL EXTERIOR WALL PACK 4000 58 BACK-UP THIS LIGHTING FIXTURE SCHEDULE IS FOR REFERENCE AND FINAL APPROVAL SHALL BE PER ARCHITECT REFER TO ARCHITECTURAL PLANS FOR EXACT SPECIFICATIONS AND REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO PURCHASE AND INSTALLATION

SPECIFICATIONS

GENERAL * VERIFY ALL DIMENSIONS AT TH

- * VERIFY ALL DIMENSIONS AT THE JOB SITE AND FROM THE ARCHITECTURAL PLANS.

 * UNLESS OTHERWISE NOTED, CONTRACTOR AND SUBCONTRACTOR SHALL PAY FOR ALL PERMITS AND CHARGES REQUIRED AND SHALL COMPLY WITH ALL GOVERNING
- CODES AND ORDINANCES AND AUTHORITY HAVING JURISDICTION.

 * VISITING THE SITE: EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND SHALL FULLY INFORM HIMSELF REGARDING THE FACILITIES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK OR MATERIAL OMITTED FROM THE BIDDER'S CONTRACT PROPOSAL DUE TO HIS FAILURE TO SO INFORM HIMSELF BY SUCH INVESTIGATION.
 - * ALL CHANNELING AND PATCHING OF ROOF, FLOOR, CEILING AND WALLS SHALL BE GENERAL CONTRACTOR.
 - * FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON PLANS. ELECTRICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO ALL EQUIPMENT. MATERIAL SHALL BE AS FOLLOWS:
- * ALL CONDUITS, WEATHER HEAD, AND FITTINGS FROM THE UTILITY COMPANY POINT OF DELIVERY TO THE MAIN SERVICE DISCONNECT SWITCH/EQUIPMENT/GUTTER SHALL BE NON-METALLIC (PER POWER COMPANY STANDARDS). CONDUITS SHALL BE PVC SCHEDULE 40 UNLESS THEY ARE SUBJECTED TO PHYSICAL DAMAGE. PVC SCHEDULE 80 CONDUITS SHALL BE USED.
- * ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN CONDUIT COMPLYING WITH THE NATIONAL ELECTRICAL CODE. WHERE INSTALLED SUBJECT TO STRESS FROM COLLISION OR IMPACT, CONDUIT SHALL BE GALVANIZED RIGID STEEL. WHERE RIGID STEEL CONDUIT IS NOT REQUIRED, CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING WITH ELECTRO—GALVANIZING OUTSIDE AND ENAMEL INSIDE. TUBING SHALL BE BY "TRIANGLE" OR AN APPROVED SUBSTITUTION. LIQUID—TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED AT ALL MOTOR CONNECTIONS OR WHERE MOVEMENT OR VIBRATION IS A CONCERN. UNLESS NOTED OTHERWISE, FLEXIBLE METAL CONDUIT MAY BE USED ONLY FOR CONNECTION TO LIGHTING FIXTURES, IN LENGTHS NOT TO EXCEED 6 (SIX) FEET. MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH. MINIMUM SIZE FOR FLEXIBLE METAL CONDUIT SHALL BE 1/2 INCH. CONDUIT/CONDUCTOR FILL SHALL CONFIRM TO NATIONAL ELECTRICAL CODE, LATEST EDITION.
- * CARLON PVC TYPE SCH. 40 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE USED BELOW FLOOR SLAB OR UNDERGROUND IN LIEU OF RIGID, THREADED, GALVANIZED CONDUIT. PVC SCH. 40 CONDUIT SHALL NOT BE RUN IN OR ABOVE FLOOR SLAB, OR IN TILT WALL PANELS. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.

 * A GROUND CONDUCTOR SHALL BE SUPPLIED IN NONMETALLIC CONDUIT OR ELECTRICAL
- METALLIC TUBING UTILIZING SET SCREW TYPE CONNECTORS. THE GROUND CONDUCTOR SHALL BE BARE, STRANDED, ANNEALED COPPER.

 * CONDUIT TO BE SUPPORTED FROM JOIST. PROVIDED HANGERS, SUPPORTS AND FASTENINGS AS REQUIRED BY NATIONAL ELECTRICAL CODE DO NOT SUPPORT FROM
- ROOF DECK.

 * PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

CONDITIT FITTINGS:

* ALL CONDUIT FITTINGS SHALL BE STEEL, SET SCREW OR COMPRESSION TYPE, INSULATED THROAT, UL LISTED. FITTINGS SHALL BE AS MANUFACTURED BY APPLETON ELECTRIC, OZ GEDNEY CO., ARROW CONDUIT AND FITTINGS CORP., OR EQUAL.

CONDUCTORS:

* ALL CONDUCTORS SHALL BE COPPER. EACH CONDUCTOR SHALL BE CONTINUOUS, WITHOUT WELD, SPLICE, OR JOIST THROUGHOUT ITS LENGTH, AND UNIFORM IN CROSS—SECTION. WIRE #6 AWG AND LARGER SHALL HAVE TYPE "THWN" INSULATION. WIRE #8 AWG AND SMALLER SHALL HAVE DUAL—RATED TYPE "THHN/THWN" INSULATION. MINIMUM WIRE SIZE, EXCEPT FOR CONTROL WIRING, SHALL BE #12 AWG. ALL WIRING INSIDE LIGHTING FIXTURES SHALL BE TEMPERATURE RATED PER THE NATIONAL ELECTRICAL CODE — 90 DEGREES C MINIMUM. BRANCH CIRCUIT WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS SHALL BE TEMPERATURE RATED FOR 90 DEGREES C.

LIGHTING PANELBOARDS:

- * 1. 120/208V, 3-PHASE' 4-WIRE OR 120/240V, 1-PHASE, 3-WIRE: FURNISH AND INSTALL AS SHOWN ON PLANS, LIGHTING PANELBOARDS BY SQUARE 'D' TYPE 'NQ', STYLE "Q", OR EQUAL WITH BOLT ON CIRCUIT BREAKERS OR AN APPROVED SUBSTITUTION. ALL BUSSING TO BE COPPER.
- 2. 277/480V, 3-PHASE, 4-WIRE: FURNISH AND INSTALL AS SHOWN ON PLANS, LIGHTING PANELBOARDS BY SQUARE 'D', OR EQUAL TYPE "NF" WITH BOLT ON CIRCUIT BREAKERS OR AN APPROVED SUBSTITUTION. ALL BUSSING TO BE COPPER.

SAFETY SWITCHES:

* SAFETY SWITCHES SHALL BE FURNISHED AND INSTALLED AT ALL LOCATIONS INDICATED ON PLANS OR REQUIRED BY THE NATIONAL ELECTRICAL CODE. ALL SWITCHES SHALL BE HEAVY DUTY TYPE AND SHALL HAVE CLIPS FOR REJECTION TYPE FUSES AND SHALL BE BY SQUARE 'D', G.E., OR EQUAL, FOR THE VOLTAGE AND LOAD INVOLVED. PROVIDE A COMPLETE SET OF FUSES IN ALL FUSED SWITCHES. FUSES SHALL BE CLASS RK5 DUAL ELEMENT TIME DELAY FOR CIRCUITS UP TO 600 AMPS AND CLASS L (BUSSMAN "HI—CAP" KRP—C) FOR CIRCUITS ABOVE

TRANSFORMERS:

* FURNISH AND INSTALL G.E. TYPE "QL" OR EQUAL DRY TRANSFORMER WITH 2-1/2% CAPACITY TAPS ON THE PRIMARY WINDING (TWO ABOVE AND FOUR BELOW NORMAL VOLTAGE). TRANSFORMER SHALL BE RATED FOR 150 DEG. C. RISE ABOVE 40 DEG. C. AMBIENT DURING USE AND HAVE AN INSULATION SYSTEM RATED TO WITHSTAND 220 DEG. C. COPPER WINDINGS ONLY.

■ Date issued/revised

14 SEP 2018 FOR PERMIT & REVIEW NOVEMBER 14, 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 02 JUL 2019 FOR CONSTRUCTION





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SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No. 18064
Drawn MG
Checked IM

ELECTRICAL SPECIFICATIONS, DETAILS AND LEGENDS

E3.0

SA1-2 @ 27.5' 2.8 SA2-2 @ 27.5' BUILDING A BUILDING B *3. SA2-3 @ 27.5' *2.1 *1.8 *1.5 **Luminaire Locations**

| Schedule | | | | | | | | | | | |
|--------------|-------|----------|----------------------|----------------------------------|--|------|-----------------|--|--------------------|----------------------|---------|
| Symbol | Label | Quantity | Manufactur er | Catalog Number | Description | Lamp | Number Lamps | Filename | Lumens Per Lamp | Light Loss Factor | Wattage |
| | SA1 | 2 | Lithonia Lighting | DSX1 LED P6 40K TFTM MVOLT | DSX1 LED P6 40K TFTM MVOLT | LED | 1 | DSX1_LED_P 6_40K_TFTM _MVOLT.ies | 19037 | 0.94 | 163 |
| •• •• | SA2 | 3 | Lithonia Lighting | DSX1 LED P6 40K T5W MVOLT | DSX1 LED P6 40K T5W MVOLT | LED | 1 | DSX1_LED_P 6_40K_T5W_ MVOLT.ies | 19635 | 0.94 | 326 |
| ÷ | SA3 | 1 | Lithonia Lighting | DSX1 LED P6 40K TFTM MVOLT | DSX1 LED P6 40K TFTM MVOLT | LED | 1 | DSX1_LED_P 6_40K_TFTM _MVOLT.ies | 19037 | 0.94 | 326 |
| | SW | 6 | Lithonia Lighting | WST LED P3 40K VW HVOLT | WST LED, Performance package 3, 4000 K, visual comfort wide, HVOLT | LED | 1 | WST_LED_P 3_40K_VW_ HVOLT.ies | 6689 | 0.94 | 58 |

Date issued/revised

14 SEP 2018 FOR PERMIT & REVIEW 02 JUL 2019 FOR CONSTRUCTION





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5.5:1

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0.00 | 193.47

0.00 284.80

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SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

18064 MG/KC Drawn Checked

PHOTOMETRIC SITE PLAN

EP0.1

| | | | | | | | | | | | | | | | ll . | | | | | | | II . |
|-------|----------|----------------------|----------------------------------|---------------------------------------|------------|-----------------|--|--------------------|----------------------|---------|-----|----------|--------|--------|----------|-------|-------|--------|-------|---------|--------|------|
| | | | N | | | | | | | | 1 | SA2 | 186.23 | 166.46 | 27.50 | 27.50 | 78.6 | 9 0.0 | 00 | | | |
| | | | | 1 | | METRIC 20'-0" | SITE PL | <u>AN</u> | | | 2 | SA2 | 301.38 | 192.64 | 27.50 | 27.50 | 78.6 | 9 0.0 | 00 | | | |
| | | | | | SOALL. I - | 20 -0 | | | | | 3 | SA2 | 426.59 | 220.08 | 27.50 | 27.50 | 78.6 | 9 0.0 | 00 | | | |
| | | | | | | | | | | | 1 | SA3 | 399.37 | 344.20 | 27.50 | 27.50 | 347.0 | 0.0 | 00 | | | |
| | | | | | | | | | | | 1 | SW | 143.16 | 272.50 | 12.00 | 12.00 | 256.9 | 95 0.0 | 00 14 | 42.86 2 | 272.43 | 0.00 |
| | | | | | | | | | | | 2 | SW | 151.12 | 238.67 | 12.00 | 12.00 | 256.9 | 95 0.0 | 00 1 | 50.82 | 238.60 | 0.00 |
| | | | | | | | | 1 | 1 | | 3 | SW | 205.30 | 301.62 | 12.00 | 12.00 | 346.6 | 61 0.0 | 00 20 | 05.23 | 301.93 | 0.00 |
| Label | Quantity | Manufactur er | Catalog Number | Description | Lamp | Number Lamps | riiename | Lumens Per Lamp | Light Loss Factor | Wattage | 4 | SW | 296.59 | 322.26 | 12.00 | 12.00 | 347.7 | 74 0.0 | 00 29 | 96.52 | 322.57 | 0.00 |
| SA1 | 2 | Lithonia Lighting | DSX1 LED P6 40K TFTM MVOLT | DSX1 LED F 40K TFTM MVOLT | P6 LED | 1 | DSX1_LED_P 6_40K_TFTM MVOLT.ies | 19037 | 0.94 | 163 | 5 | SW | 162.90 | 291.75 | 12.00 | 12.00 | 346.6 | 61 0.0 | 00 10 | 62.82 | 292.06 | 0.00 |
| | | | | | | | _ | 4000= | 201 | | 6 | SW | 340.79 | 332.14 | 12.00 | 12.00 | 347.7 | 74 0.0 | 00 3 | 40.72 | 332.44 | 0.00 |
| SA2 | 3 | Lithonia Lighting | DSX1 LED P6 40K T5W MVOLT | DSX1 LED F 40K T5W MVOLT | P6 LED | 1 | DSX1_LED_P 6_40K_T5W_ MVOLT.ies | 19635 | 0.94 | 326 | | | | | <u> </u> | | | L | I | I | | |
| SA3 | 1 | Lithonia Lighting | DSX1 LED P6 40K TFTM MVOLT | DSX1 LED F 40K TFTM MVOLT | P6 LED | 1 | DSX1_LED_P 6_40K_TFTM _MVOLT.ies | 19037 | 0.94 | 326 | Sta | atistic | CS | | 1 | | T | | | | | |
| CVA | 6 | Lithonia Lighting | WST LED P3 40K VW HVOLT | WST LED, Performance package 3, | LED | 1 | WST_LED_P 3_40K_VW_ HVOLT.ies | 6689 | 0.94 | 58 | Des | scriptic | on S | Symbol | Avg | N | Лах | Min | Max | x/Min | Avg | /Min |

Location

193.46 | 356.94 | 27.50 | 27.50

284.74 373.25 27.50 27.50

2.2 fc

19.7 fc

0.4 fc

49.3:1

Label

SA1

SA1

Retail Site

MH

Orientation

179.55

177.08

| FIXTURE | MANUFACTURER | CATALOG NO. | | | FIXTURE | | | VOLT | MOUNTING | INPUT | POLE DESCRIPTION |
|-------------|--------------|---|-----|------|---------|--------|------|------|-------------------------------|---------|--|
| DESIGNATION | WANUFACTURER | CATALOG NO. | NO. | TYPE | COLOR | LUMENS | WATT | VOLI | WOUNTING | WATTAGE | POLE DESCRIPTION |
| SA1 | LITHONIA | DSX1-LED-P9-40K-TFTM-480 | 1 | LED | 4000K | 27578 | 241 | 480 | SINGLE POLE MOUNTED | 250 | MOUNT ON 25' POLE, ROUND TAPERED, POWDER- COATED OVER GALVANIZED STEEL, ON 2'-6" BASE. BASIS OF DESIGN: LITHONIA POLE# RTS-25-59B-DM28-PL DDB |
| SA2 | LITHONIA | DSX1-LED-P9-40K-TFTM-480 | 2 | LED | 4000K | 27578 | 241 | 480 | 2-180 DEGREES POLE MOUNTED | 500 | MOUNT ON 25' POLE, ROUND TAPERED, POWDER- COATED OVER GALVANIZED STEEL, ON 2'-6" BASE. BASIS OF DESIGN: LITHONIA POLE# RTS-25-59B-DM28-PL DDB |
| SA4 | LITHONIA | DSX1-LED-P9-40K-T5W-480 | 4 | LED | 4000K | 28445 | 241 | 480 | 4-90 DEGREES POLE MOUNTED | 1000 | MOUNT ON 25' POLE, ROUND TAPERED, POWDER- COATED OVER GALVANIZED STEEL, ON 2'-6" BASE. BASIS OF DESIGN: LITHONIA POLE# RTS-25-59B-DM28-PI DDB |
| | _ | THIS LIGHTING REFER TO CIVIL AND ARCHITECTURAL F | | | | | | | L SHALL BE PER ARCHITECT/OV | | |

______ ______ HA-5,7/9,11VERIFY LOCATION OF ALL WIREWAYS, PANELS, TELEPHONE CABINETS, ETC. WITH OWNER/UTIL COMPANIES PRIOR TO INSTALLATION. Site Lighting - ELECTRICAL METERING GUTTER 'A' 277/480V, Conduit Routing TELEPHONE/ CABLE TV CABINET 'A' 1 STORY SHELL BUILDING A 二十二 TELEPHONE/-CABLE TV CABINET 'B' 1 STORY SHELL BUILDING B 07.35,38, Location of Pylon Sign per HA-2,4,6 this drawing not C-1 Sign Conduit ONCOR #004-181016 HA-2,4) Designer - Jay Walthall EASEMENT 30/3P/NF/NEMA-3R-Jobsite Address: EXISTING POWER POLE (TYPICAL) 720/722 US 79 West Hutto, TX 78634 —10FT GROUND EASEMENT ELECTRICAL/PLUMBING SITE PLAN SCALE: 1" = 20'-0" Oncor Inspector:

ELECTRICAL GENERAL NOTES

- 1. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
- 2. ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
- REFER TO SHEET DRAWINGS FOR SYMBOLS, SPECIFICATIONS AND ABBREVIATIONS.
- 4. ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN U.O.N.
- 5. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY OR LOAD CAPACITY PRIOR TO INSTALLATION.
- 6. ALL EXTERIOR ELECTRICAL DEVICES SHALL BE LISTED AS WEATHERPROOF TYPE.
- 7. MAINTAIN 15'-0" MINIMUM CLEARANCE BETWEEN OVERHEAD LINES AND LIGHTING POLES.

ELECTRICAL KEYED NOTES

- 1) PROVIDE (2) 4" AND (1) 3" RIGID PVC EMPTY CONDUITS WITH PULL STRINGS FOR TELEPHONE AND CABLE—TV SERVICES FROM EACH BUILDING TELEPHONE/CABLE—TV CABINET TO CLOSEST SERVICE DEMARCATION POINT/PEDESTAL. COORDINATE WITH CIVIL DRAWINGS AND TELEPHONE/CABLE—TV COMPANY SERVING THE AREA FOR EXACT LOCATION AND CONDUIT TERMINATIONS.
- PROVIDE (2) 4" CONDUITS FROM POLE MOUNTED TRANSFORMER TO EACH
 NEW SERVICE GUTTER/TAP BOX ((4) CONDUITS IN TOTAL), AS SHOWN FOR
 UNDERGROUND ELECTRICAL SERVICE CONDUCTORS. REFER TO ONE LINE FOR
 MORE INFORMATION. COORDINATE EXACT ROUTING AND ALL OTHER
 REQUIREMENTS WITH OTHER UNDERGROUND WORK, OWNER, UTILITY COMPANY,
 AND CIVIL ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- 3) PROPOSED UTILITY TRANSFORMER POLE LOCATION. SERVICE SHALL BE 1020A, 277/480V, 3PH, 4W.
- PROVIDE (1) 2" SPARE PVC CONDUIT WITH PULL WIRE, (1) WEATHERPROOF DISCONNECT SWITCH, AND 4#8 + 1#8GND IN 2" CONDUIT FOR FUTURE SIGNAGE (3–277V BRANCH CIRCUITS SHARING THE NEUTRAL). COORDINATE ROUTING, TERMINATION POINTS, AND OTHER REQUIREMENTS WITH OWNER/SIGN VENDOR PRIOR TO INSTALLATION. CONTRACTOR TO STUB UP SPARE CONDUIT 6" ABOVE GRADE LEVEL AT EACH END, AND TO TAG AND CAP EACH END.

PLUMBING KEYED NOTES

- 6" SANITARY SEWER, CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE SANITARY SEWER PIPING. REFER TO CIVIL DRAWINGS FOR EXACT
- 2" DOMESTIC COLD WATER AT 50 PSI MINIMUM, CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE DOMESTIC WATER PIPING. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 6" FIRE WATER SERVICE, CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE FIRE WATER PIPING. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
- PROVIDE 6" PVC SLEEVE FOR FUTURE NATURAL GAS PIPING BELOW GRADE. PROVIDE 4' X 4' LEAVE—OUT AT ALL 90' TURNS AND AT 100' INTERVALS. CONTRACTOR TO FILL IN LEAVE—OUTS AFTER GAS PIPING HAS BEEN INSTALLED. VERIFY EXACT DEMARCATION POINT WITH GAS COMPANY.
- 5 4'X4' LEAVE-OUT IN CONCRETE FOR FUTURE NATURAL GAS PIPING/ METER. VERIFY EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.

- GROUND LUG IN POLE.

ANCHOR BOLT COVER.

- 25 FEET OF #4 AWG MINIMUM SOLID SOFT BAR COPPER WIRE

- COIL GROUNDING ELECTRODE AT BOTTOM OF PIER SHAFT.

ANCHOR BOLTS. PROVIDE STEEL

REINFORCED CONCRETE BASE TO

SUPPORT THE WIND LOADING OF THE POLE AND FIXTURES.

FURNISHED AND INSTALL IN—LINE BALLAST FUSES IN BUSSMANN "TRON" WEATHERPROOF FUSE HOLDERS #HEB—AD WITH #KTK FUSES (SIZE AS REQUIRED)

4" x 6" GASKETED HAND HOLE.

GRADE OR PAVEMENT

NOTE:
REFER TO ARCHITECTURAL/ STRUCTURAL DRAWINGS FOR CONCRETE WORK.

METAL POLE WITH CONCRETE ANCHOR
BASE ELECTRICAL REQUIREMENTS
SCALE: NONE

LIGHTING STANDARD POLE.

STUB-UP CONDUIT @ 4" ABOVE POLE BASE.

UNDERGROUND CONDUIT.-

GROUNDING BUSHING-

CONCRETE BASE.

Date issued/revised

14 SEP 2018 FOR PERMIT & REVIEW NOVEMBER 12, 2018 REVISIONS

NOVEMBER 14, 2018 FOR PRICING

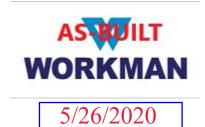
15 MAR 2019 FOR PERMIT

02 JUL 2019 FOR CONSTRUCTION

12 AUG 2019 UTILITY REVISION

3

25 OCT 2019 ELECTRICAL REVISIONS





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SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No. 18064

Drawn MG/KC

Checked

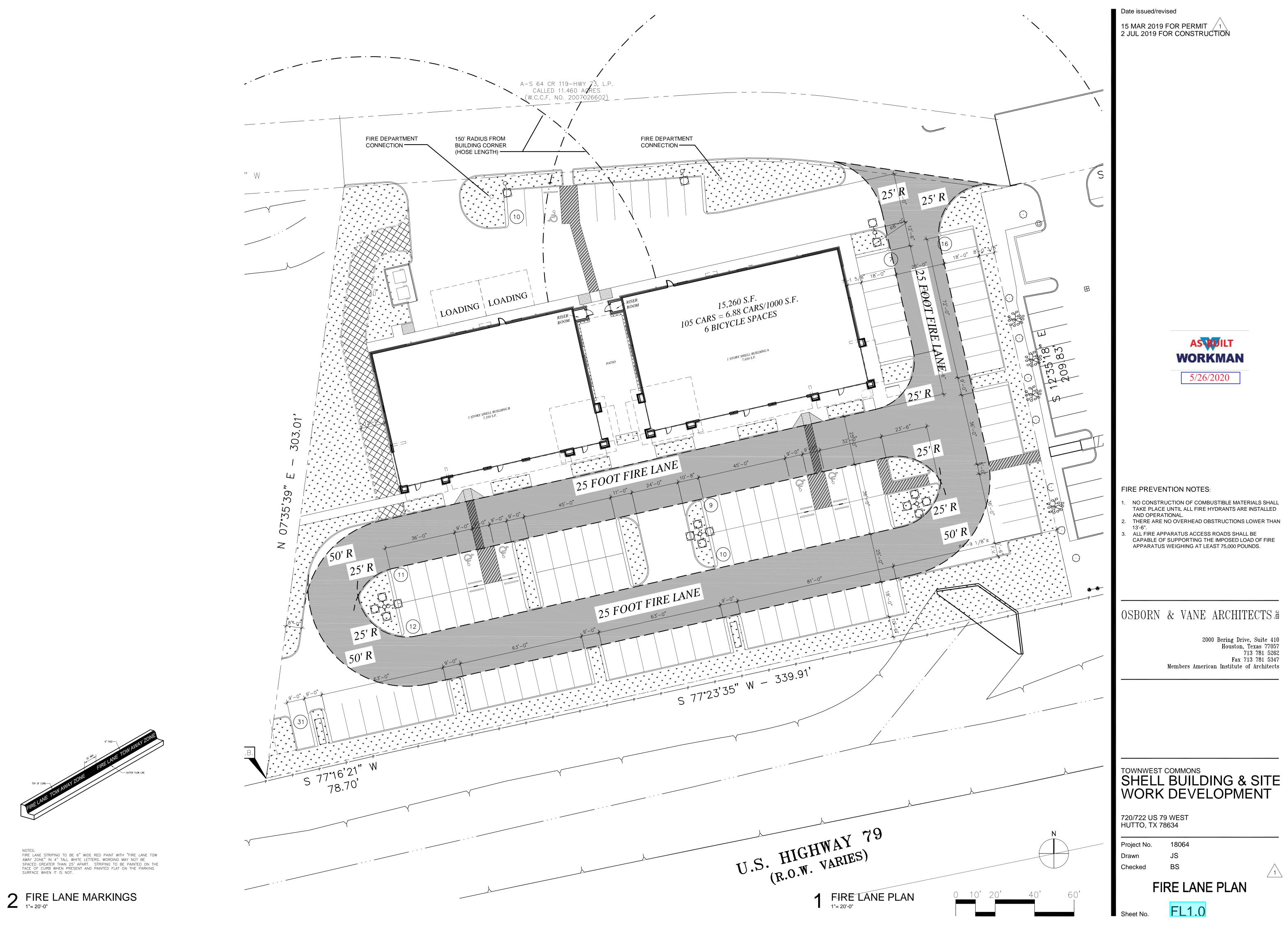
ELECTRICAL/PLUMBING SITE PLAN

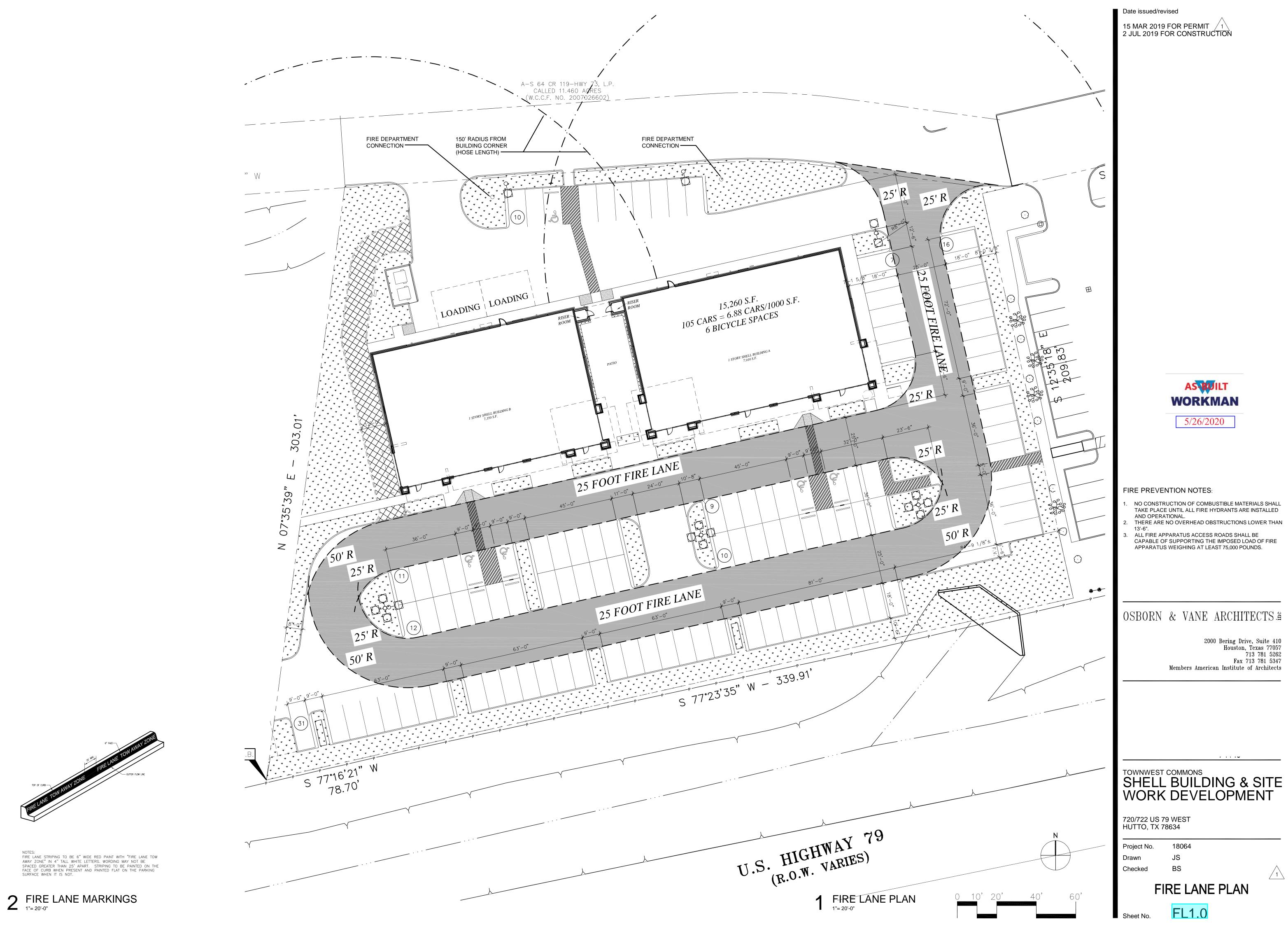
neet No. EP1.0

U.S. HIGHWAY 79

Ricky Tanksley

512-569-7134





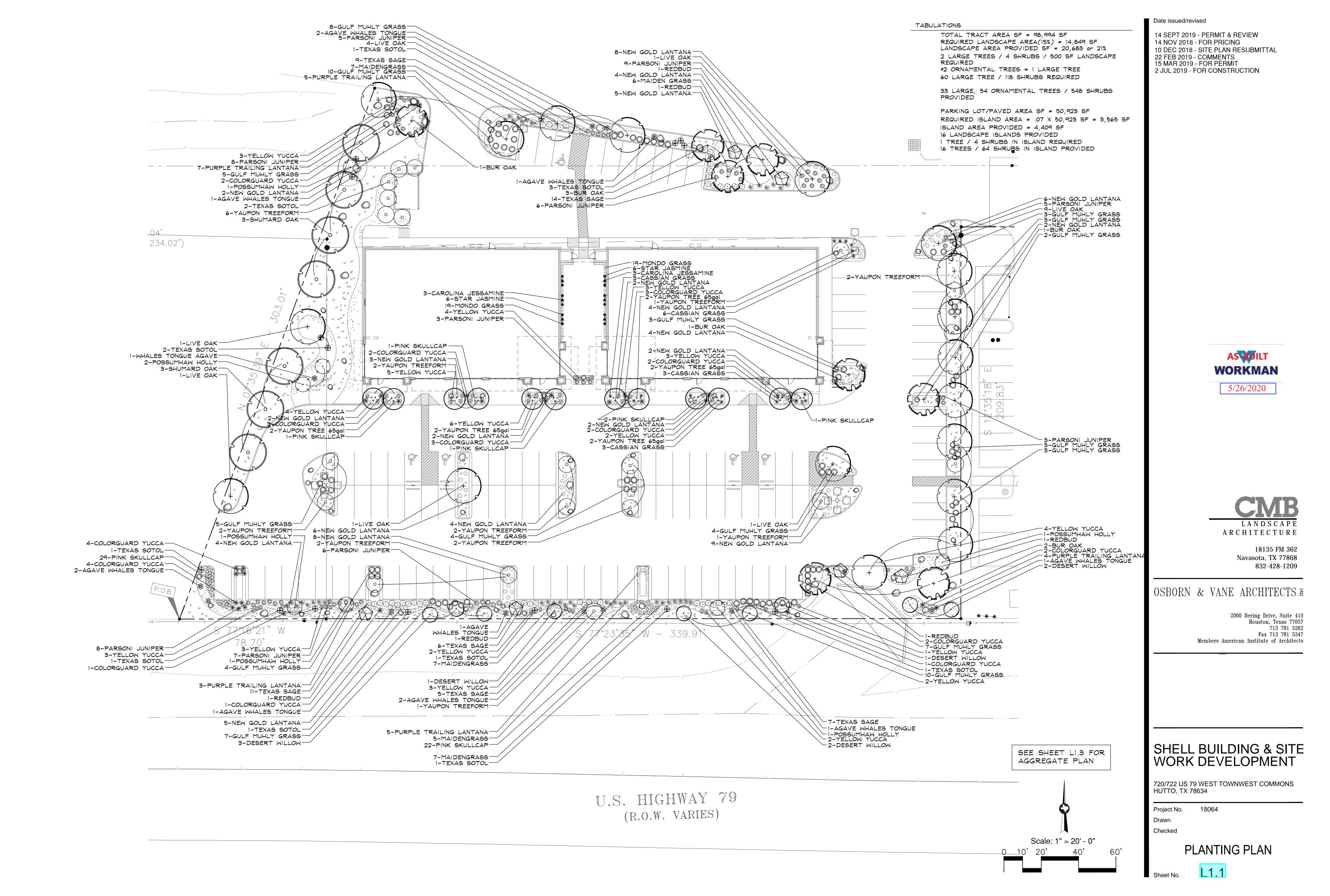
| i roject | Hatto Hatt E | _ | |
|-----------|-------------------------------------|-----------|-------------------------------|
| Address | 720 US 79 | 7 | ZONE CHART |
| | Hutto TX 78634 | | |
| ZONE | ZONE TYPE | HEAD TYPE | LOCATION |
| 1 | Bed | Drip | North Side outer area |
| 2 | Trees | Drip | North Side outer area |
| 3 | Trees | Drip | East Side |
| 4 | Bed | Drip | East Side |
| 5 | Bed | Drip | Bed at store front leave outs |
| 6 | Bed | Drip | South side of parking area |
| 7 | Bed | Drip | Parking lot islands |
| 8 | Trees | Drip | West Side |
| Emergency | Cut Off: RPZ Northwest Corner of pr | operty | |

Project

Hutto Tract E



5/26/2020



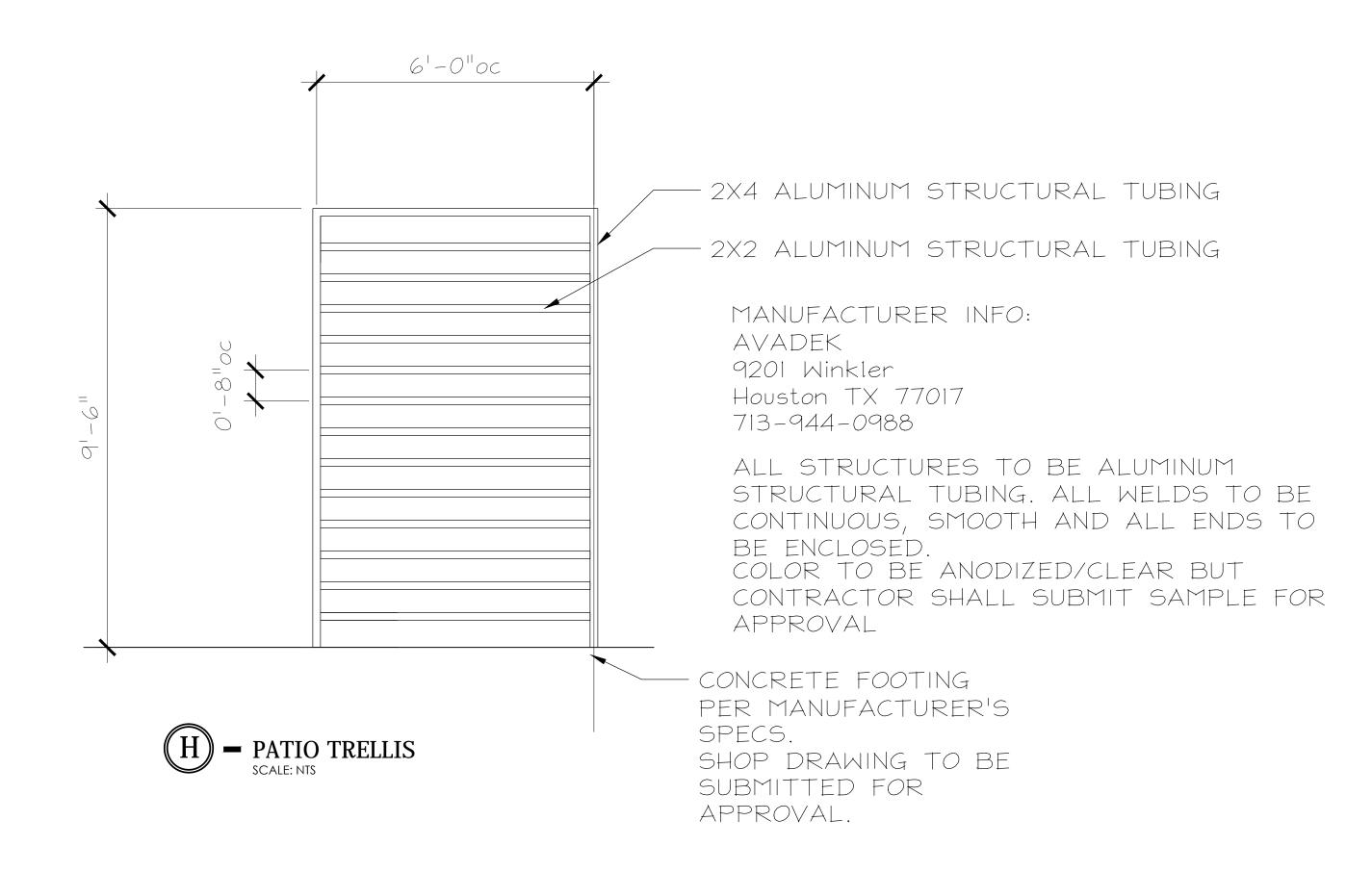
1. CONTRACTOR SHALL APPLY FOR AND PROCURE ALL REQUIRED PERMITS PRIOR TO COMMENCING WORK.

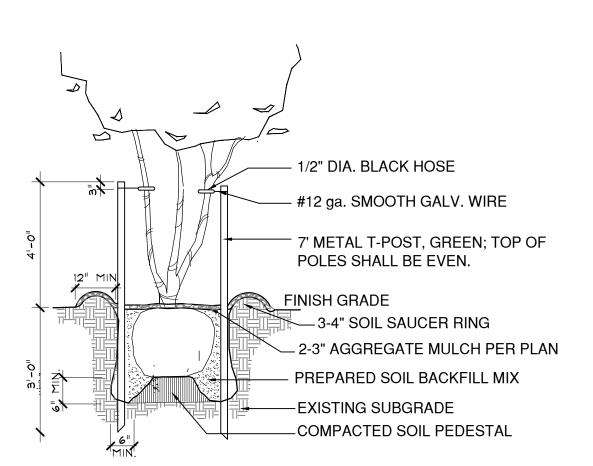
2. CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. CONTACT ALL UTILITY COMPANIES MINIMUM 48 HOURS PRIOR TO ANY WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, ETC. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF THESE UTILITIES.

3. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN FORESEEN IN THE DESIGN. SUCH CONDITIONS SHALL BE BROUGHT UP TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY CHANGES DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

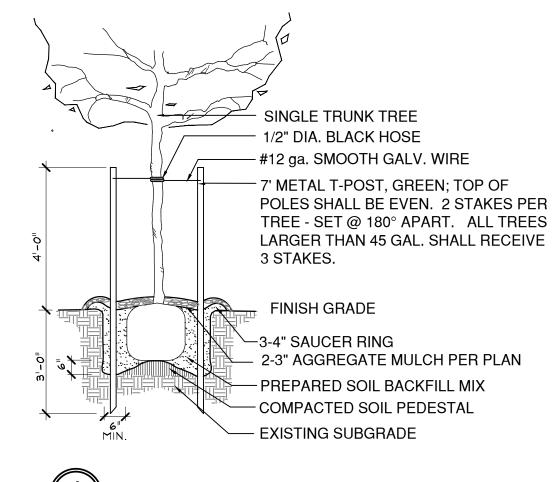
4. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER SUBCONTRACTORS ON THE JOBSITE AS REQUIRED TO COMPLETE CONSTRUCTION.

5. CONTRACTOR TO PROVIDE SAMPLES OF EACH SHRUB AND GROUNDCOVER SPECIES OR NURSERY SOURCE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. ALL PLANTS ARE TO BE SPECIMEN QUALITY, FULL POT AND HEAD, SYMMETRICAL FOLIAGE AND BRANCHING STRUCTURE. SHRUBS SHALL BE FULL TO GROUND. PLANT MATERIAL OF THE SAME SPECIES SHALL BE OBTAINED FROM THE SAME SOURCE.











| PLANT | SCHEDULE | | | | | |
|---|-------------------------|--|-----|---------|-----------|---|
| SYMBOL | COMMON NAME | SCIENTIFIC NAME | QTY | SIZE | CONDITION | REMARKS |
| + | LIVE OAK | Quercus virginiana | 18 | 65 GAL. | CONTAINER | 12'-14' HT., 7'-8' SPRD., FULL SYMMETRICAL BRANCHING, STRAIGHT TRUNK, 3"- 3.5" CAL. |
| \odot | SHUMARD OAK | Quercus shumardii | 7 | 65 GAL. | CONTAINER | 12'-14' HT., 7'-8' SPRD., FULL SYMMETRICAL BRANCHING, STRAIGHT TRUNK, 3"- 3.5" CAL. |
| £ + } | BUR OAK | Quercus macrocarpa | 8 | 65 GAL. | CONTAINER | 12'-14' HT., 7'-8' SPRD., FULL SYMMETRICAL BRANCHING, STRAIGHT TRUNK, 3"- 3.5" CAL. |
| | TEXAS REDBUD | Cercis texensis | 6 | 45 GAL. | CONTAINER | 8'-10' HT., 5'-6' SPRD., MULTI-TRUNK, 2" cal. |
| (·) | POSSUMHAW HOLLY | llex decidua | 7 | 30 GAL. | CONTAINER | 6'-8' HT., 5'-6' SPRD., MULTI-TRUNK, (3) CANE MIN., CALIPER TOTAL MUST EXCEED 2" |
| 0 | YAUPON HOLLY | llex vomitoria | 20 | 30 GAL. | CONTAINER | 6-7' HT., 4'-5' SPRD., MULTI-TRUNK, (3) CANE MIN., CALIPER TOTAL MUST EXCEED 2" |
| +,+ | YAUPON HOLLY 65gal | llex vomitoria | 12 | 65 GAL. | CONTAINER | 10'-12' HT., 5'-6' SPRD., MULTI-TRUNK, TREE FORM LEGGED UP A MIN 3' (3) CANE MIN., CALIPER TOTAL MUST EXCEED 2" |
| + | DESERT WILLOW | Chilopsis linearis | 9 | 30 GAL. | CONTAINER | 8'-10' HT., 5'-6' SPRD., 2" cal. |
| * | CASSIAN GRASS | Pennisetum alopecuroides Cassian | 15 | 3 GAL. | CONTAINER | FULL POT, 12"-16" HT., 10"-12" SPRD., WELL ROOTED |
| ⊕ | TEXAS SOTOL | Dasylirion texanum | 16 | 5 GAL. | CONTAINER | FULL POT, 12"-16" HT.,15"-18" SPR., WELL ROOTED |
| E CHANGE TO THE | GULF MUHLY GRASS | Muhlenbergia capillaris | 73 | 3 GAL. | CONTAINER | 26"-30" HT., 20"-24" SPRD., FULL POT, WELL ROOTED, |
| \Diamond | COLORGUARD YUCCA | Yucca filamentosa 'Color Guard' | 36 | 3 GAL. | CONTAINER | 12" HT., 10-12" SPRD., FULL POT, WELL ROOTED, |
| | PARSONS JUNIPER | Juniperus chinensis 'Parsoni' | 70 | 3 GAL. | CONTAINER | FULL POT, 12"-14" HT.,15"-18" SPR., SPREADING |
| * | MAIDEN GRASS | Miscanthus sinensis 'Gracillimus' | 41 | 3 GAL. | CONTAINER | 26"-30" HT., 20"-24" SPRD., FULL POT, WELL ROOTED, |
| * | YELLOW YUCCA | Hesperaloe parviflora 'Yellow' | 51 | 3 GAL. | CONTAINER | FULL POT, 12"-16" HT., 10"-12" SPRD., WELL ROOTED |
| (3) | TEXAS SAGE | Leucophyllum frutescens 'Silverado' | 50 | 3 GAL. | CONTAINER | 26"-30" HT., 20"-24" SPRD., FULL POT, WELL ROOTED, |
| 28 8 | WHALE'S TONGUE AGAVE | Agave ovatifolia | 14 | 5 GAL. | CONTAINER | FULL POT, 12"-16" HT.,15"-18" SPR., WELL ROOTED |
| A | CAROLINA JESSAMINE | Gelsemium sempervirens | 6 | 3 GAL. | CONTAINER | STAKED |
| • | STAR JASMINE | Trachelospermum jasminoides | 12 | 3 GAL. | CONTAINER | STAKED |
| * | MONDO GRASS | Ophiopogon japonica | 38 | 1 GAL. | CONTAINER | 12" HT., 10-12" SPRD., FULL POT, WELL ROOTED, |
| * | NEW GOLD LANTANA | Lantana camara 'New Gold' | 71 | 1 GAL. | CONTAINER | 12" HT., 10-12" SPRD., FULL POT, WELL ROOTED, |
| ** | PURPLE TRAILING LANTANA | Lantana montevidensis 'Purple' | 28 | 1 GAL. | CONTAINER | 12" HT., 10-12" SPRD., FULL POT, WELL ROOTED, |
| © | PINK SKULLCAP | Scutellaria suffrutescens | 27 | 1 GAL. | CONTAINER | FULL POT, 6" HT., 8" SPRD., WELL ROOTED |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

GROUNDCOVER SET

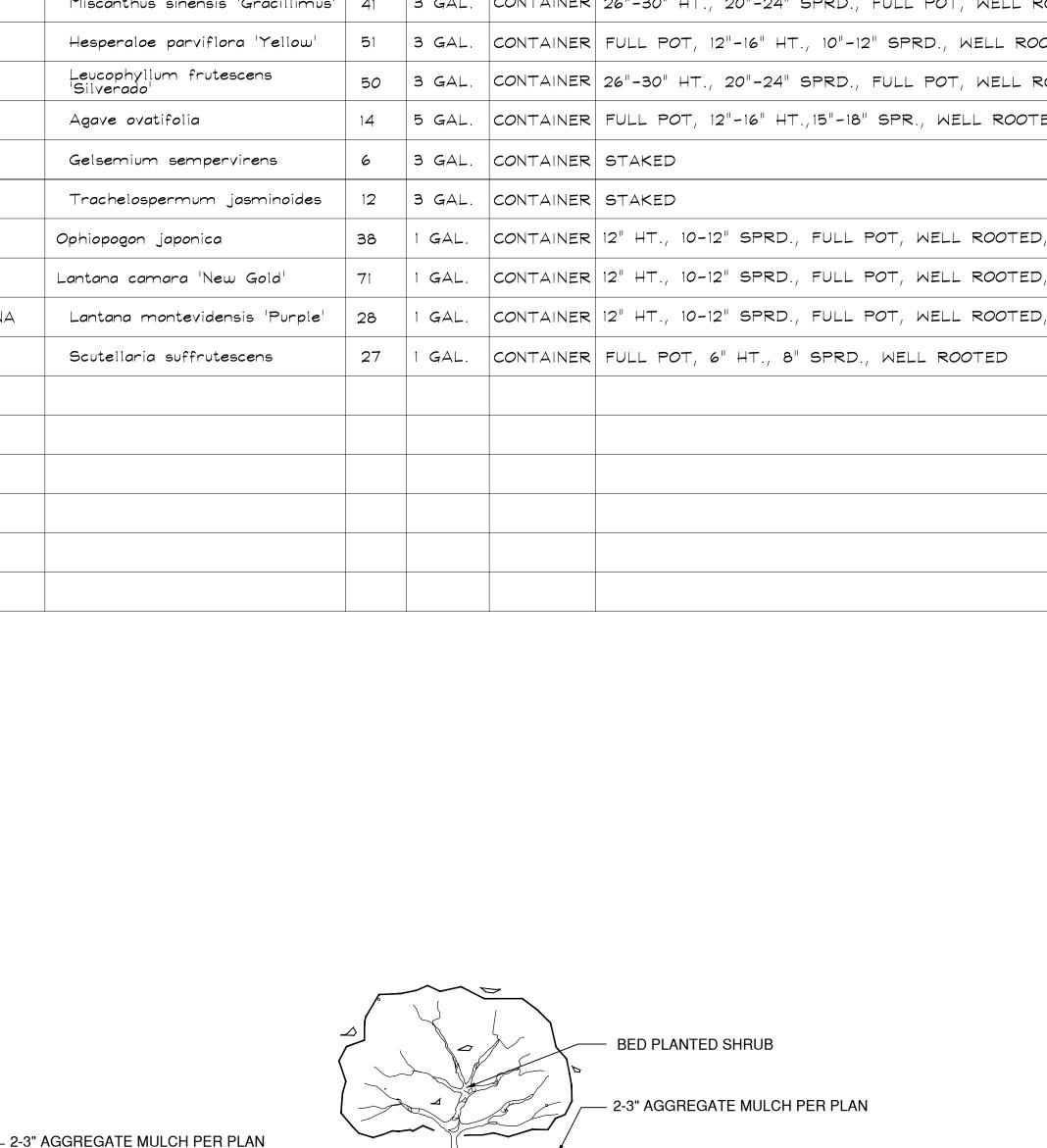
INTO PREPARED BED

TILLED INTO EXISTING SOIL

— EXISTING SUBGRADE

- GROUNDCOVER PLANTING

PREPARED SOIL: 6" PLANTER'S MIX



PREPARED SOIL: 6" PLANTER'S MIX

TILLED INTO EXISTING SOIL

COMPACTED SOIL PEDESTAL

– SHRUB PLANTING

EXISTING SUBGRADE

Date issued/revised

14 SEPT 2019 - PERMIT & REVIEW 14 NOV 2018 - FOR PRICING 10 DEC 2018 - SITE PLAN RESUBMITTAL 22 FEB 2019 - COMMENTS 15 MAR 2019 - FOR PERMIT 2 JUL 2019 - FOR CONSTRUCTION





18135 FM 362 Navasota, TX 77868 832-428-1209

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SHELL BUILDING & SITE WORK DEVELOPMENT

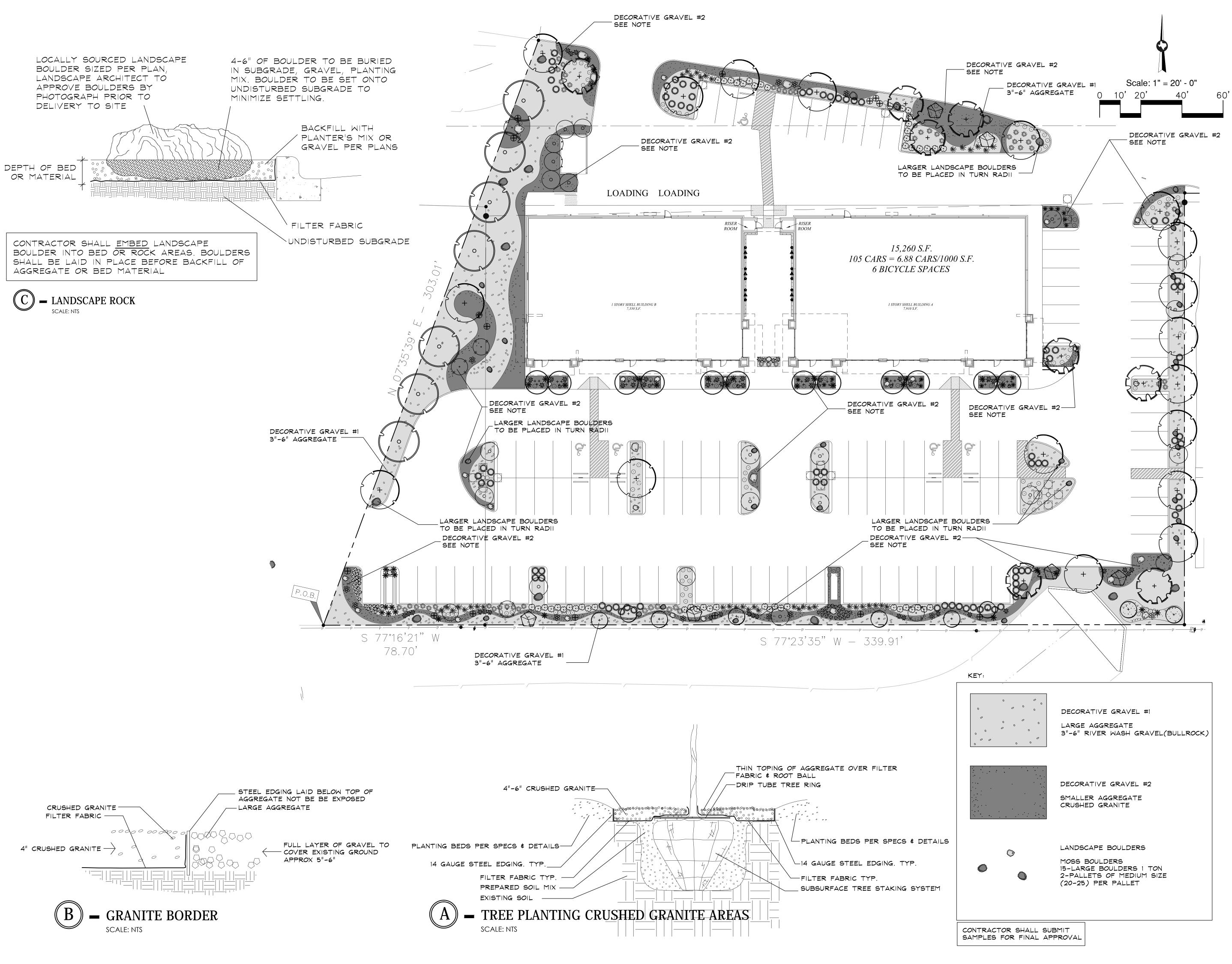
720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

Project No.

Drawn Checked

LANDSCAPE DETAILS





14 SEPT 2019 - PERMIT & REVIEW
14 NOV 2018 - FOR PRICING
10 DEC 2018 - SITE PLAN RESUBMITTAL
22 FEB 2019 - COMMENTS
15 MAR 2019 - FOR PERMIT
2 JUL 2019 - FOR CONSTRUCTION





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SHELL BUILDING & SITE WORK DEVELOPMENT

720/722 US 79 WEST TOWNWEST COMMONS HUTTO, TX 78634

rt No. 18064

Project No. 1
Drawn

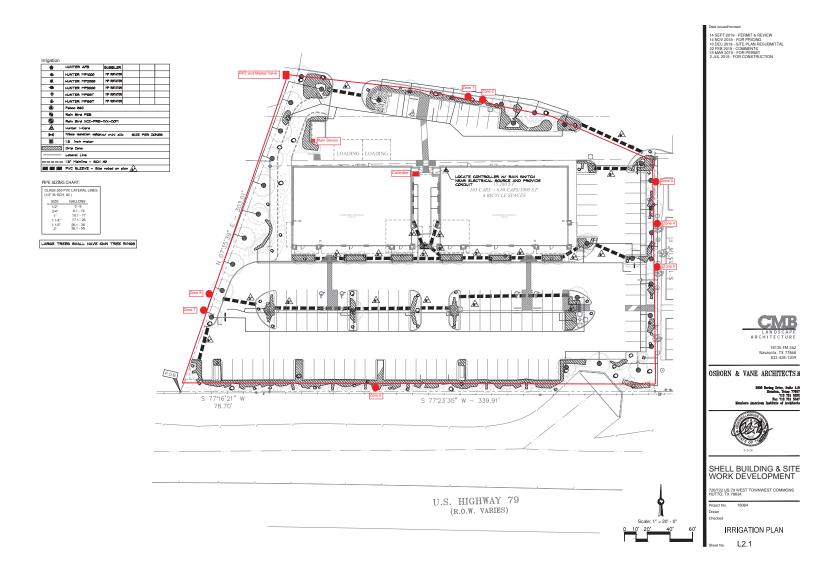
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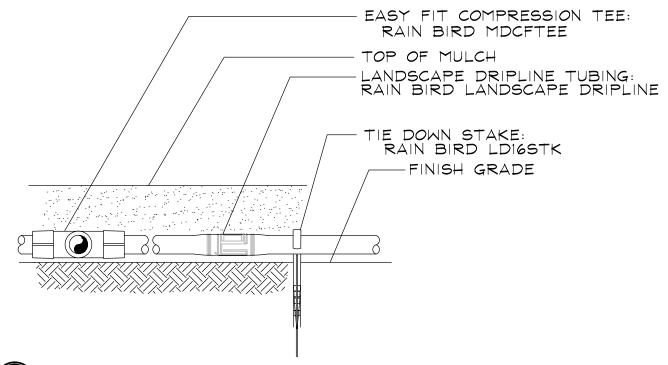
ROCKSCAPE PLAN

1.4

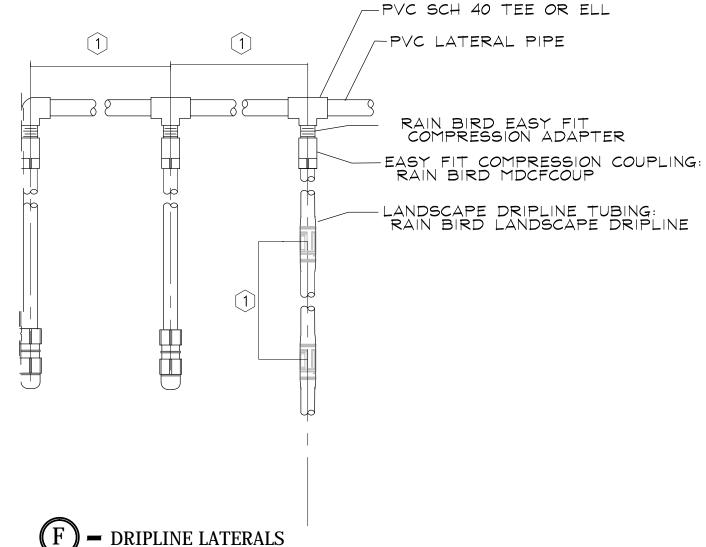


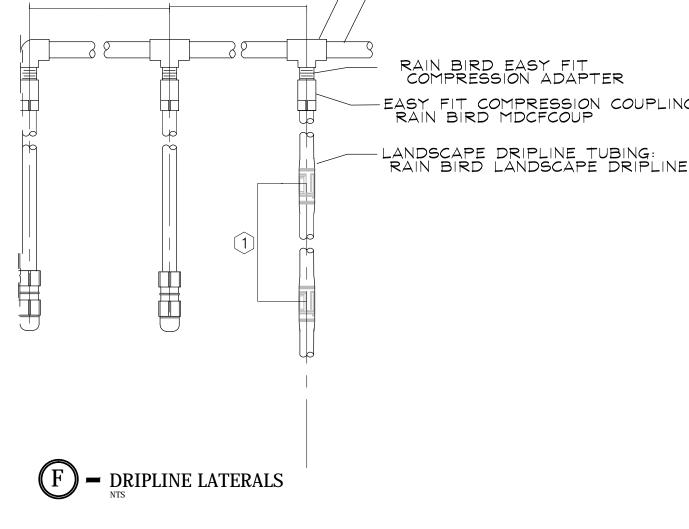


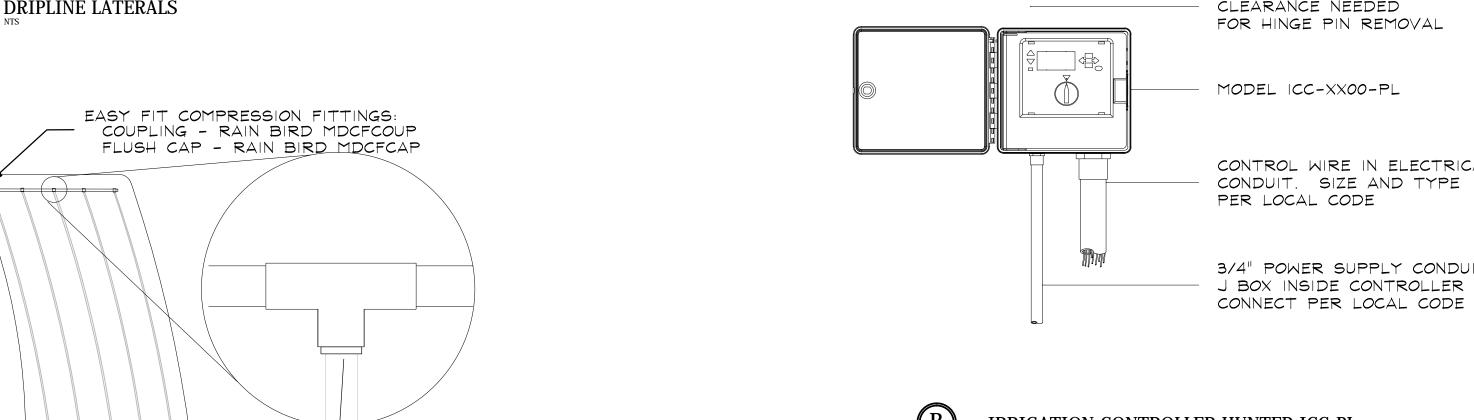




G - LANDSCAPE DRIPLINE ON GRADE







COMPRESSION ADAPTER: RAIN BIRD 600-CF-1

LANDSCAPE DRIPLINE TUBING:

AIR/VACUUM RELIEF VALVE: RAIN BIRD AR VALVE KIT

CONTROL ZONE KIT:

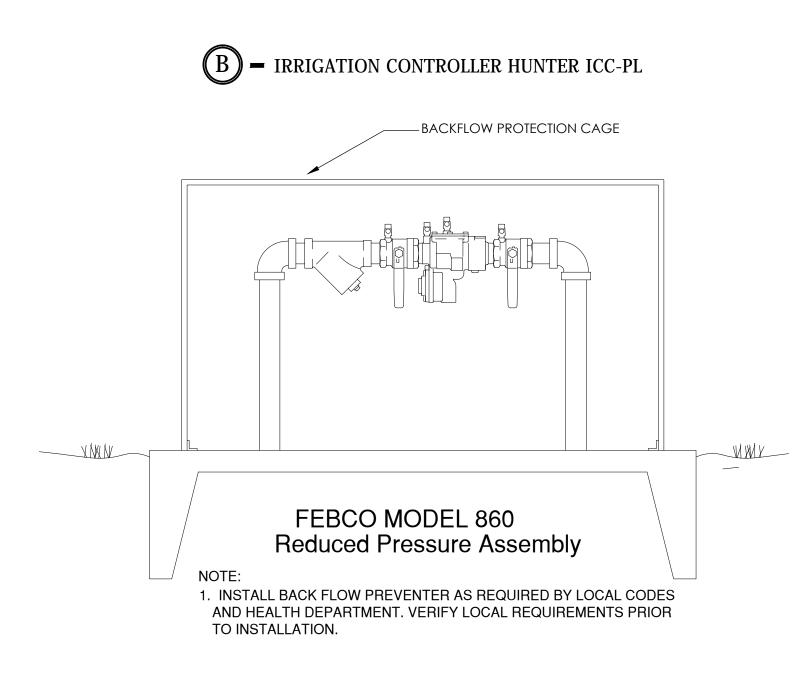
MAINLINE PIPE

(INSTALL AT HIGH POINT IN LANDSCAPE SYSTEM)

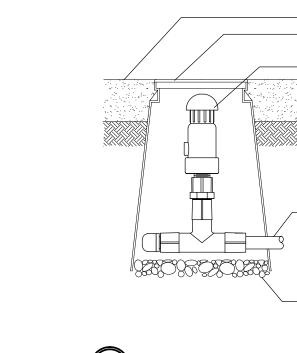
SUPPLY HEADER - PVC SCH 40 WITH COMPRESSION FITTINGS: RAIN BIRD 600-CF-1

RAIN BIRD XCZ-100-PRB-COM

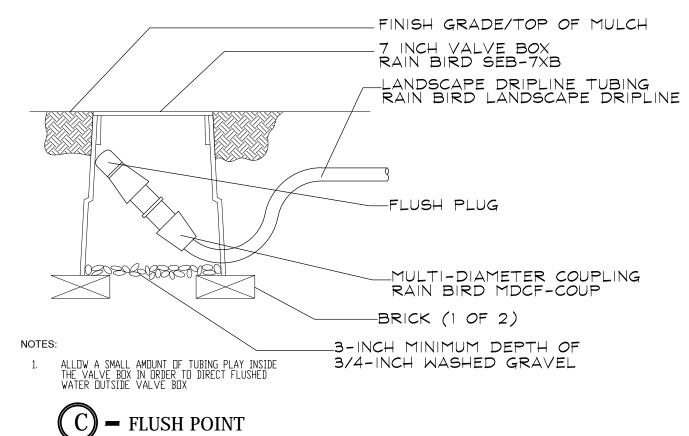
RAIN BIRD LANDSCAPE DRIPLINE







D – AIR RELIEF VALVE KIT



TOP OF MULCH

-FINISH GRADE

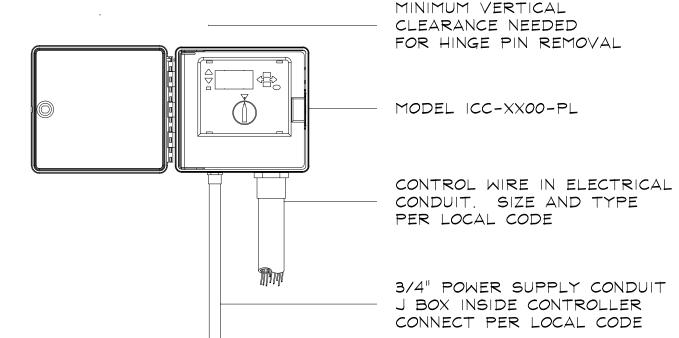
_6-INCH ROUND VALVE BOX: RAIN BIRD VB-6RND

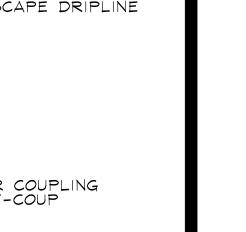
LANDROBPED DRIPLINE ITUBING:

–3-194+1,MIN'MUM-REP JH 49Fel

—AIR RELIEF VALVE KIT: RAIN BIRD X17000 AR VALVE KIT

INTERIOR OR EXTERIOR WALL





Date issued/revised

14 SEPT 2019 - PERMIT & REVIEW

2 JUL 2019 - FOR CONSTRUCTION

10 DEC 2018 - SITE PLAN RESUBMITTAL

14 NOV 2018 - FOR PRICING

22 FEB 2019 - COMMENTS

15 MAR 2019 - FOR PERMIT



AS BUILT

WORKMAN

5/26/2020



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SHELL BUILDING & SITE WORK DEVELOPMENT

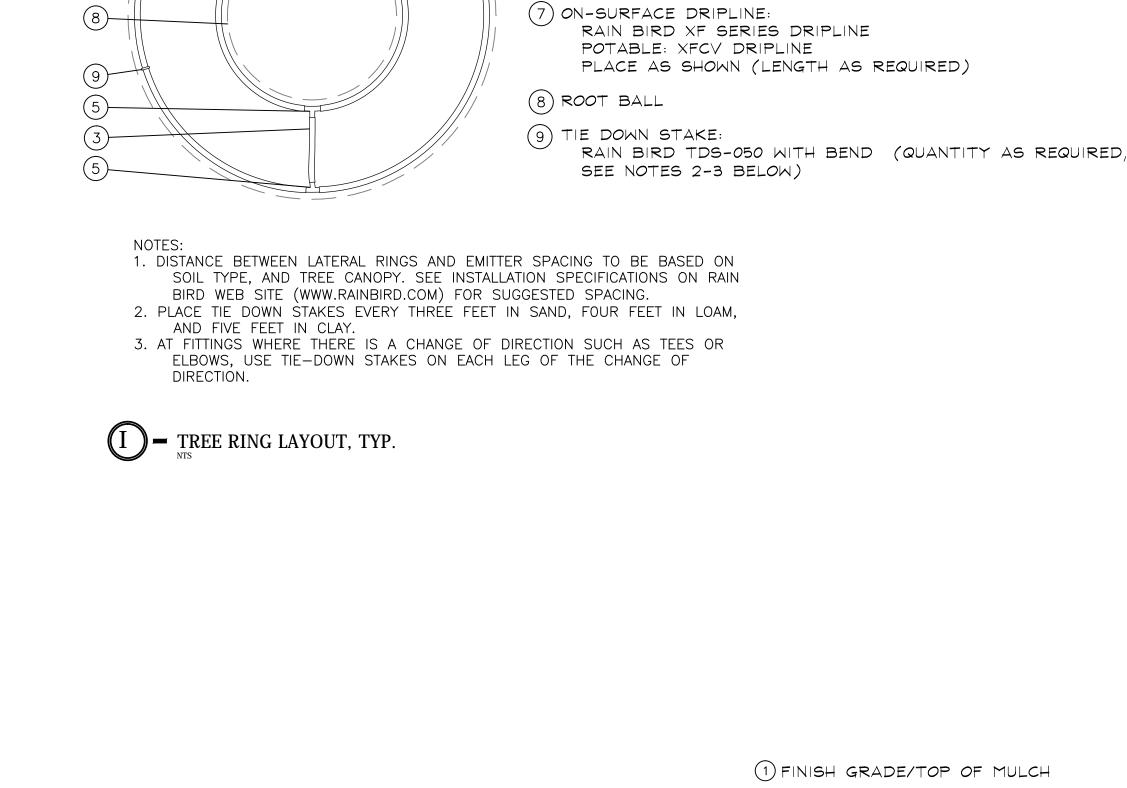
720/722 US 79 WEST TOWNWEST COMMONS **HUTTO, TX 78634**

18064 Project No.

Drawn Checked

IRRIGATION DETAILS





1 2 3 4 5 6 7

(H) - XCZ-PRB-100-COM 1" COMMERCIAL

89

(1) PVC DRIP MANIFOLD PIPE

3 1/2" POLYETHYLENE TUBING:

RAIN BIRD XFF-TEE

(4) BARB CROSS INSERT FITTING: RAIN BIRD XFD-CROSS (5) BARB TEE INSERT FITTING:

(6) PROJECTED CANOPY LINE OF TREE

RAIN BIRD XF SERIES BLANK TUBING

(2) PVC SCH 40 TEE OR EL

(1) FINISH GRADE/TOP OF MULCH 2 VALVE BOX WITH COVER:
RAIN BIRD VB-STD
3 30-INCH LINEAR LENGTH OF
WIRE, COILED
4 WATERPROOF CONNECTION:
RAIN BIRD DB SERIES
5 1-INCH BALL VALVE (INCLUDED
IN XCZ-PRB-100-COM KIT)
6 ID TAG

(16) 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL (17) PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)

7 REMOTE CONTROL VALVE:
RAIN BIRD PESB (INCLUDED
IN XCZ-PRB-100-COM KIT)
8 PRESSURE REGULATING QUICK
CHECK BASKET FILTER:
RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)

(9) PVC SCH 40 FEMALE ADAPTOR (10) LATERAL PIPE 11) PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
(12) PVC SCH 40 ELL (13) PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL (14) PVC SCH 40 TEE OR ELL (15) MAINLINE PIPE

E DRIPLINE LAYOUT, TYP.

NOTES

13

SHELL BUILDING A

2"

4 4"VTR 6

- 1. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF THEIR BID AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR CONNECTION OF UTILITIES, ESTABLISHING ACCOUNTS, THEN TRANSFERRING THE UTILITIES TO THE LANDLORDS NAME UPON RECEIPT OF CERTIFICATE OF OCCUPANCY.

FIRE PROTECTION NOTE

LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR AN AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING, TO COMPLY WITH SPACE LAYOUT, NFPA 13, STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ENDING

[E=5.00'BFF]

ASBUILTS

6 4"VTR 4

PLUMBING KEYED NOTES

- 1 6" SANITARY SEWER, CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE SANITARY SEWER PIPING. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
- TWO-WAY EXTERIOR CLEANOUT. COORDINATE EXACT LOCATION WITH OWNER. REFER TO PLUMBING DETAIL SHEET.
- 3 VENT UP FROM BELOW SLAB, COORDINATE EXACT LOCATION WITH OWNER.
- 4 ROUTE VENT PIPING WITHIN JOIST SPACE. VENT THROUGH ROOF.

 5 ROUTE DOMESTIC COLD WATER IN JOIST SPACE. REFER TO PLUMBING DETAIL SHEET FOR TYPICAL
- PIPE HANGER DETAIL.

 6 VALVE AND CAP COLD WATER LINE AT JOIST LEVEL FOR FUTURE CONNECTION. COORDINATE EXACT
- LOCATION WITH OWNER PRIOR TO INSTALLATION.

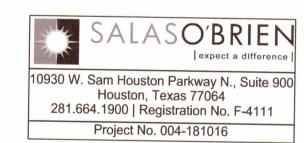
 7 DROP 3/4" COLD WATER TO SERVE WALL HYDRANT.
 MOUNT AT 12" ABOVE FINISHED FLOOR OR
- OTHERWISE SPECIFIED BY ARCHITECT.

 8 6" FIRE WATER SERVICE, THIS CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE FIRE SERVICE PIPING. REFER CIVIL DRAWINGS FOR CONTINUATION.
 - 9 6" FIRE WATER ENTRY, REFER TO PLUMBING DETAIL SHEET.
 - 2" DOMESTIC COLD WATER AT 50 PSI MINIMUM, CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE DOMESTIC WATER PIPING. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 2" DOMESTIC WATER ENTRY, REFER TO PLUMBING DETAIL SHEET.
 - PROVIDE 6" PVC SLEEVE FOR FUTURE NATURAL GAS PIPING BELOW GRADE. PROVIDE 4' X 4' LEAVE—OUT AT ALL 90' TURNS AND AT 100' INTERVALS. CONTRACTOR TO FILL IN LEAVE—OUTS AFTER GAS PIPING HAS BEEN INSTALLED. COORDINATE EXACT DEMARCATION POINT WITH GAS COMPANY.
 - 4'X4' LEAVE-OUT IN CONCRETE FOR FUTURE NATURAL GAS PIPING/ METER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.

Date issued/revised

14 SEP 2018 FOR PERMIT & REVIEW NOVEMBER 12, 2018 REVISIONS 1 NOVEMBER 14, 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 02 JUL 2019 FOR CONSTRUCTION 23 OCT 2019 SANITARY REVISION 5





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SHELL BUILDING & SITE WORK DEVELOPMENT

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Project No. 1
Drawn K

Checked

PLUMBING FLOOR PLAN

heet No. P1.0



NOTES

ENDING IE=4.50'BFF

4 4"VTR 6

1. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF THEIR BID AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR FURNISHING A COMPLETE AND FUNCTIONAL SYSTEM. NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ALLOW EXTRA FUNDS FOR ANY OMISSION WHICH RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

13

5

SHELL BUILDING B

GENERAL CONTRACTOR IS RESPONSIBLE FOR CONNECTION OF UTILITIES, ESTABLISHING ACCOUNTS, THEN TRANSFERRING THE UTILITIES TO THE LANDLORDS NAME UPON RECEIPT OF CERTIFICATE OF OCCUPANCY.

FIRE PROTECTION NOTE

LICENSED SPRINKLER ENGINEER OR LICENSED SPRINKLER CONTRACTOR, TO PROVIDE DRAWINGS AND CALCULATIONS FOR AN WITH SPACE LAYOUT, NFPA 13, STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

AUTOMATIC FIRE SPRINKLER SYSTEM FOR THIS BUILDING, TO COMPLY

PLUMBING KEYED NOTES

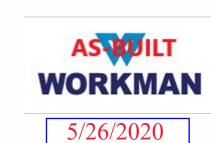
- 6" SANITARY SEWER, CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE SANITARY SEWER PIPING. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.
- 2 TWO-WAY EXTERIOR CLEANOUT. COORDINATE EXACT LOCATION WITH OWNER. REFER TO PLUMBING DETAIL
- 3 VENT UP FROM BELOW SLAB. COORDINATE EXACT LOCATION WITH OWNER.
- 4 ROUTE VENT PIPING WITHIN JOIST SPACE. VENT THROUGH ROOF. 7 ROUTE DOMESTIC COLD WATER IN JOIST SPACE. REFER TO PLUMBING DETAIL SHEET FOR TYPICAL
- PIPE HANGER DETAIL. 6 VALVE AND CAP COLD WATER LINE AT JOIST LEVEL FOR FUTURE CONNECTION. COORDINATE EXACT

LOCATION WITH OWNER PRIOR TO INSTALLATION.

- 7 DROP ³/₄" COLD WATER TO SERVE WALL HYDRANT. MOUNT AT 12" ABOVE FINISHED FLOOR OR OTHERWISE SPECIFIED BY ARCHITECT.
- 8 6" FIRE WATER SERVICE, THIS CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE FIRE SERVICE PIPING. REFER CIVIL DRAWINGS FOR
 - CONTINUATION. 9 6" FIRE WATER ENTRY, REFER TO PLUMBING DETAIL
- 2" DOMESTIC COLD WATER AT 50 PSI MINIMUM, CONTRACTOR TO MAKE CONNECTION AS NECESSARY TO SITE DOMESTIC WATER PIPING. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 11 2" DOMESTIC WATER ENTRY, REFER TO PLUMBING DETAIL SHEET.
- 12 PROVIDE 6" PVC SLEEVE FOR FUTURE NATURAL GAS PIPING BELOW GRADE. PROVIDE 4' X 4' LEAVE-OUT AT ALL 90° TURNS AND AT 100' INTERVALS. CONTRACTOR TO FILL IN LEAVE-OUTS AFTER GAS PIPING HAS BEEN INSTALLED. COORDINATE EXACT DEMARCATION POINT WITH GAS COMPANY.
- 13 4'X4' LEAVE-OUT IN CONCRETE FOR FUTURE NATURAL GAS PIPING/ METER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.

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PLUMBING FLOOR PLAN

P1.1



4"VTR 4

| , | PLUMBING LEGEND |
|-------------------------|--|
| SYMBOL | DESCRIPTION |
| SAN | SANITARY OR WASTE PIPING ABOVE GRADE (SAN) |
| — — SAN— — | SANITARY OR WASTE PIPING BELOW GRADE (SAN) |
| ——— GW ——— | GREASE WASTE PIPING ABOVE GRADE (GW) |
| — — GW — — | GREASE WASTE PIPING BELOW GRADE (GW) |
| | VENT PIPING ABOVE OR BELOW GRADE (V) |
| CW | COLD WATER PIPING (CW) |
| ———НW ——— | HOT WATER PIPING (HW) |
| ——— F ——— | FIRE PROTECTION PIPING (F) |
| ——FS —— | FIRE SPRINKLING PIPING (FS) |
| ——— GAS ——— | NATURAL GAS PIPING (G) |
| | FLOW DIRECTIONAL ARROW |
| | SHUT-OFF VALVE |
| | BALL VALVE (BV) |
| | HORIZONTAL SWING CHECK |
| | UNION |
| | Y-STRAINER |
| | PIPING DOWN |
| | RISE OR DROP PIPING |
| | PIPING UP -OR- PIPING UP & DOWN |
| | CAP ON END OF PIPE |
| | CLEANOUT (WALL OR CEILING) (CO) |
| ₩ - | FLOOR CLEANOUT (FCO) |
| | EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO) |
| <u> </u> | TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE) |
| | HOSE BIBB |
| 123 | WALL HYDRANT |
| 1 | REFER TO KEYED NOTE |
| D | FLOOR DRAIN (FD) |
| D :- | FLOOR DRAIN WITH P-TRAP (FD) |
| \$ G- | FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD) |
| (E) | EXISTING |
| (N) | NEW |
| VTR | VENT THRU ROOF |
| FD | FLOOR DRAIN |
| FS | FLOOR SINK |
| $oldsymbol{\Theta}$ | CONNECT NEW TO EXISTING |
| IE=100.00' | INVERT ELEVATION |
| \triangle | DELTA CHANGE SYMBOL |
| NOTE: NOT ALL SYMBOLS I | MAY APPLY TO THIS PROJECT. |

PLUMBING GENERAL NOTES

- PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF
- THE CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK, CONDUIT AND STRUCTURAL ITEMS. SHOULD A CONFLICT OCCUR CONTRACTOR MUST NOTIFY THE ARCHITECT/ ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
- 4. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODES, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
- 5. COORDINATE ROUTING OF ALL BELOW GRADE PIPING WITH GRADE BEAMS. ADJUST INVERT ELEVATIONS OR PIPE ROUTING TO CLEAR GRADE BEAMS.
- 6. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
- COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
- 8. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.
- 9. REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- 10. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DI-ELECTRIC UNIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- 11. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 15'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
- 12. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF WORK.
- 13. CONTRACTOR TO PROVIDE (1) YEAR WARRANTY ON ALL ITEMS PROVIDED.

FIRE SPRINKLER SYSTEM

- DESIGN AND PROVIDE LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF AN AUTOMATIC WET PIPE FIRE EXTINGUISHING SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR THE ENTIRE AREA.
- 2. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS AND FIELD SURVEY THE EXISTING BUILDING IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.
- THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE GOVERNING BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING
- 4. IT SHALL BE THE FIRE PROTECTION CONTRACTOR'S RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.
- PROVIDE SCHEDULE 10 AND SCHEDULE 40 BLACK STEEL PIPE AND FITTINGS IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA FOR APPLICABLE FIRE PROTECTION SYSTEMS. CONFORM TO ASTM NFPA 13 2002 EDITION TABLE 6.3.1.1. PROVIDE PIPING WITH MALLEABLE IRON. CAST IRON. STEEL WELDED OR SCREWED FITTINGS. VICTAULIC GROOVED FITTINGS MAY BE USED ABOVE GRADE IN ACCESSIBLE LOCATIONS ONLY.
- 6. ALL HEADS SHALL BE UL LISTED AND FM APPROVED, AND COMPLY WITH THE LATEST REQUIREMENTS OF NFPA 13 WITH RESPECT TO ORIFICE SIZE. SPRINKLER HEADS WITH "O" RING DESIGN SHALL NOT BE ACCEPTABLE. TYCO MODEL B, FRB, OR APPROVED EQUAL UNLESS STATED OTHERWISE.

PLUMBING SCOPE & SPECIFICATION

THE WORK OF THIS SECTION SHALL INCLUDE, BUT NOT BE LIMITED TO:

A. A DOMESTIC COLD WATER DISTRIBUTION SYSTEM TO SERVE ALL FIXTURES. B. A SANITARY SOIL WASTE AND VENT SYSTEM TO SERVE ALL FIXTURES.

DRAWINGS ARE DIAGRAMMATIC; CONFIRM DIMENSIONS AND LOCATIONS IN THE FIELD, ADVISE OF MAJOR DISCREPANCIES.

GUARANTEE LABOR AND MATERIALS FOR ONE YEAR.

ADHERE TO APPLICABLE LOCAL CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THE CITY CODES.

PRODUCE RECORD DRAWINGS.

CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND PAY ALL FEES.

VALVES SHALL BE MANUFACTURED BY NIBCO, HAMMOND, POWELL, STOCKHAM, WATTS OR

EQUIVALENT APPROVED BY THE ENGINEER. BALL VALVES SHALL HAVE CAST BRONZE BODY, BLOWOUT PROOF STEMS, FULL SIZE PORT, 316 STAINLESS STEEL TRIM, TEFLON SEAT AND SEAL AND THRUST WASHERS. VALVES 2"

WHERE VALVES ARE INSTALLED IN INSULATED PIPING, PROVIDE WITH EXTENDED NECK SO VALVE OPERATOR AND STOP PLATE CLEARS THE FULL THICKNESS INSULATION SO THE LEVER OR HANDLE WILL NOT DAMAGE THE INSULATION.

INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

AND SMALLER SHALL BE NIBCO T-585-70-66 OR APPROVED EQUIVALENT.

INSTALL VALVES FOR SHUT-OFF AND ISOLATING SERVICE AT EACH PIECE OF EQUIPMENT, AT VERTICAL RISERS, AND WHERE SHOWN ON THE DRAWINGS.

PROVIDE ACCESS WHERE VALVES ARE NOT EXPOSED.

UNIONS IN COPPER OR BRASS LINES SHALL BE BRASS, THREADED PATTERN UNIONS.

EXCAVATION

ARCHITECT/ENGINEER BEFORE PROCEEDING.

EXCAVATE TRENCHES FOR UNDERGROUND PIPING TO THE REQUIRED DEPTH.

CUT THE BOTTOM OF THE TRENCH OR EXCAVATION TO UNIFORM GRADE.

SHOULD ROCK BE ENCOUNTERED, EXCAVATE 6" BELOW GRADE, FILL WITH BEDDING MATERIAL (SAND) AND TAMP WELL.

LAY OUT ALIGNMENT OF PIPE TRENCHES TO AVOID OBSTRUCTIONS. PROVIDE ASSURANCE THAT PROPOSED ROUTE OF PIPE WILL NOT INTERFERE WITH BUILDING FOUNDATION BEFORE ANY CUTTING IS BEGUN. SHOULD INTERFERENCE BE FOUND, CONTACT THE

BACKFILL

PROCTOR.

BACKFILL SHALL NOT BE PLACED UNTIL THE WORK HAS BEEN INSPECTED, TESTED AND APPROVED. USE SUITABLE FRIABLE SOILS AS BACKFILL MATERIAL. DO NOT USE PEAT, SILT, MUCK, DEBRIS OR OTHER ORGANIC MATERIALS. DEPOSIT BACKFILL IN UNIFORM LAYERS.

PLACE BACKFILL MATERIAL IN UNIFORM LAYERS, 8" MAXIMUM LOOSE MEASURE. COMPACT TO NOT LESS THAN 95% OF MAXIMUM SOIL DENSITY AS DETERMINED BY ASTM D698 STANDARD

PLUMBING PIPING HANGERS

ABOVE GRADE, INSIDE BUILDING

SANITARY WASTE AND VENT PIPING

DRILLED-T CONNECTIONS IS NOT PERMITTED.

COUPLINGS SHALL CONFORM TO CISPI STANDARD 310-04.

DOMESTIC WATER PIPING

FIRE PIPING

FIRE PIPING

AND LOCAL CODES.

DOMESTIC WATER PIPING

BELOW GRADE, INSIDE BUILDING

ALL JOINTS SHALL BE BRAZED.

D-1784-82 WITH SOLVENT WELDED JOINTS.

SANITARY WASTE AND VENT PIPING

SUPPORT PIPING TO MAINTAIN LINE AND GRADE, WITH PROVISION FOR EXPANSION AND CONTRACTION. USE APPROVED CLEVIS-TYPE OR TRAPEZE-TYPE HANGERS CONNECTED TO STRUCTURAL MEMBERS OF THE BUILDING. SINGLE PIPE RUNS TO BE SUPPORTED BY APPROVED CLEVIS TYPE HANGERS. MULTIPLE PIPE RUNS TO BE SUPPORTED BY APPROVED TRAPEZE TYPE HANGERS. DO NOT SUPPORT PIPING FROM OTHER PIPING OR STRUCTURAL JOIST BRIDGING. REVIEW STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. WHERE INSULATION OCCURS, DESIGN HANGERS TO PROTECT INSULATION FROM DAMAGE. MAXIMUM VERTICAL SPACING SHALL BE 10 FOOT. MAXIMUM HORIZONTAL SPACING FOR COPPER TUBING 1-1/2" AND SMALLER SHALL BE 6 FOOT AND FOR 2" AND LARGER SHALL BE 10 FOOT. MAXIMUM HORIZONTAL SPACING FOR CAST IRON PIPING SHALL BE

PIPE MATERIAL LIST

SEAMLESS ASTM B 88 TYPE L COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS. ANSI

B16.22. SOLDER MATERIAL SHALL BE 95.5 PERCENT LEAD FREE, ASTM B 32. THE USE OF

NO-HUB CAST IRON SOIL PIPE AND FITTING SYSTEM CONFORMING TO CISPI STANDARD NO.

SCHEDULE 40 ASTM A 53 BLACK STEEL PIPE AND FITTINGS OR AS APPROVED BY N.F.P.A.

ASTM B 88 TYPE K COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22.

SCHEDULE 40 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM

DUCTILE IRON PIPE, CLASS 200 CONFORMING TO ASTM, AND RING-TITE FITTINGS AS

IN DIRECTION, ACCORDING TO THE PIPE MANUFACTURER'S RECOMMENDATIONS.

APPROVED BY N.F.P.A. AND LOCAL CODES. PROVIDE CONCRETE THRUST BLOCKS AT CHANGES

301-04A. ELASTOMERIC SEALING SLEEVES SHALL CONFORM TO ASTM STANDARD C 564.

CLEANING, TESTING AND ADJUSTING

THIS CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, INSTRUCTIONS, AND SUPERVISION REQUIRED IN THE PERFORMANCE OF ALL TESTS. CLEANING AND MAKING NECESSARY ADJUSTMENTS TO OPERATION OF ALL FIXTURES AND EQUIPMENT.

RODDING SEWERS

ALL SANITARY SOIL AND STORM SEWER LINES, BOTH IN THE BUILDING AND OUT SHALL BE RODDED OUT AND FLUSHED OUT AFTER COMPLETION OF CONSTRUCTION AND PRIOR TO FINISH FLOOR BEING INSTALLED. ALL WORK MUST BE COMPLETED PRIOR TO SUBSTANTIAL COMPLETION. ALL FLOOR DRAIN AND CLEANOUT LOCATIONS MUST BE INCLUDED IN THIS WORK

PIPE SLOPE

BUILDING SEWERS SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT A UNIFORM SLOPE OF NOT LESS THAN ONE-FOURTH (1/4) OF AN INCH PER FOOT TOWARD THE POINT OF DISPOSAL, WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION AND WHERE IT IS IMPRACTICAL, DUE TO THE DEPTH OF THE STREET SEWER OR TO THE STRUCTURAL FEATURES OR TO THE ARRANGEMENT OF ANY BUILDING OR STRUCTURE, TO OBTAIN A SLOPE OF ONE-FOURTH (1/4) OF AN INCH PER FOOT. ANY SUCH PIPE OR PIPING FOUR (4) INCHES THROUGH SIX (6) INCHES MAY HAVE A SLOPE OF NOT LESS THAN ÒŃE-EIGHTH (1/8) INCH PÈŔ FOOT AND ANY SUCH PIPE OR PIPING EIGHT (8) INCHES AND LARGER MAY HAVE A SLOPE OF NOT LESS THAN ONE-SIXTEETH (1/16) INCH PER

PIPING INSULATION

ALL COLD WATER PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1" WALL THICKNESS IMCOLOCK PIPE INSULATION, OR AN APPROVED EQUAL HAVING FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DENSITY OF 50 OR LESS WHEN TESTED BY ASTM E-84 METHOD.

ALL HOT WATER AND HOT WATER RETURN PIPING, FITTINGS AND VALVES SHALL BE INSULATED WITH NOMINAL 1" WALL THICKNESS IMCOLOCK RIPE INSULATION, HAVING A CONDUCTIVITY NOT EXCEEDING 0.28 BTU PER inch/h X ft² X *F.

IMCOLOCK PIPE INSULATION MAY BE SLIPPED ONTO THE PIPE PRIOR TO CONNECTION OR APPLIED AFTER THE PIPE IS INSTALLED, AT THE CONTRACTOR'S OPTION. ALL BUTT JOINTS AND MITER JOINTS SHALL BE CLOSED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE. IMCOLOCK PIPE INSULATION SHALL BE INSTALLED ACCORDING TO THE PROCEDURES OUTLINED BY THE MANUFACTURER.

FITTING COVER INSULATION SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. SWEAT FITTINGS SHALL BE INSULATED WITH MITER CUT PIECES OF IMCOLOCK PIPE INSULATION THE SAME SIZE AS ON ADJACENT PIPING. THREADED FITTINGS SHALL BE INSULATED WITH SLEEVED FITTING COVERS FABRICATED FROM MITER CUT PIECES OF IMCOLOCK PIPE INSULATION ACCORDING TO THE MANUFACTURER'S SLEEVING SIZE RECOMMENDATIONS AND SHALL BE OVERLAPPED 2" AND SEALED TO THE ADJACENT PIPE INSULATION. ALL VALVES SHALL BE INSULATED WITH CUT PIECES OF IMCOLOCK PIPE INSULATIONS. ALL JOINTS AND MITER CUT PIECES ARE TO BE SEALED USING IMCOA'S FUSE SEAL JOINING SYSTEM OR FACTORY APPROVED CONTACT ADHESIVE.

INSTALL THERMAL INSULATION ON CLEAN, DRY SURFACES AFTER ALL TESTING AND INSPECTION IS COMPLETED. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS AND WITH MANUFACTURERS INSTRUCTIONS.

PIPING SLEEVES

ALL COPPER PIPES PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM THE CORROSIVE MATERIAL. MINIMUM WALL THICKNESS OF MATERIAL SHALL BE 0.025 TO 0.0059 INCH.

PLUMBING FIXTURES

PROVIDE PLUMBING FIXTURES AS SPECIFIED OR EQUIVALENT APPROVED BY THE ENGINEER.

PLUMBING FIXTURE SPECIFICATION

DESCRIPTION: WALL HYDRANT, CONCEALED BOX TYPE, NON-FREEZE, 3/4" MALE HOSE THREAD OUTLET, SELF-DRAINING WITH ANTI-SIPHON VACUUM BREAKER. CHROME PLATED BRONZÉ HEAD CASTING HOUSED WITHIN SATIN FINISH NICKEL BRONZE BOX WITH LOCKING HINGED COVER. LOOSE TEE OPERATING KEY. MIFAB MHY-20. 3/4" COLD WATER. INSTALL WITH BOTTOM OF BOX AT 12" A.F.F. OR AS

DESCRIPTION:

EXTERIOR CLEANOUT TO GRADE, BOTTOM OUTLET DUCTILE IRON BODY, ADJUSTABLE 6-1/2" DIAMETER DUCTILE IRON RING AND COVER WITH VANDAL-RESISTANT SCREWS. IF LOCATED IN ASPHALT OR DIRT PROVIDE

18" X 18" X 12" CONCRETE PAD. SIOUX CHIEF 834-64DIRV.

DIRECTED BY ARCHITECT / OWNER.

DESCRIPTION: FLOOR CLEANOUT, BOTTOM OUTLET DUCTILE IRON BODY, ADJUSTABLE 6-1/2" DIAMETER NICKEL BRONZE RING AND COVER WITH VANDAL-RESISTANT SCREWS. SIOUX CHIEF 834-64DNRV.

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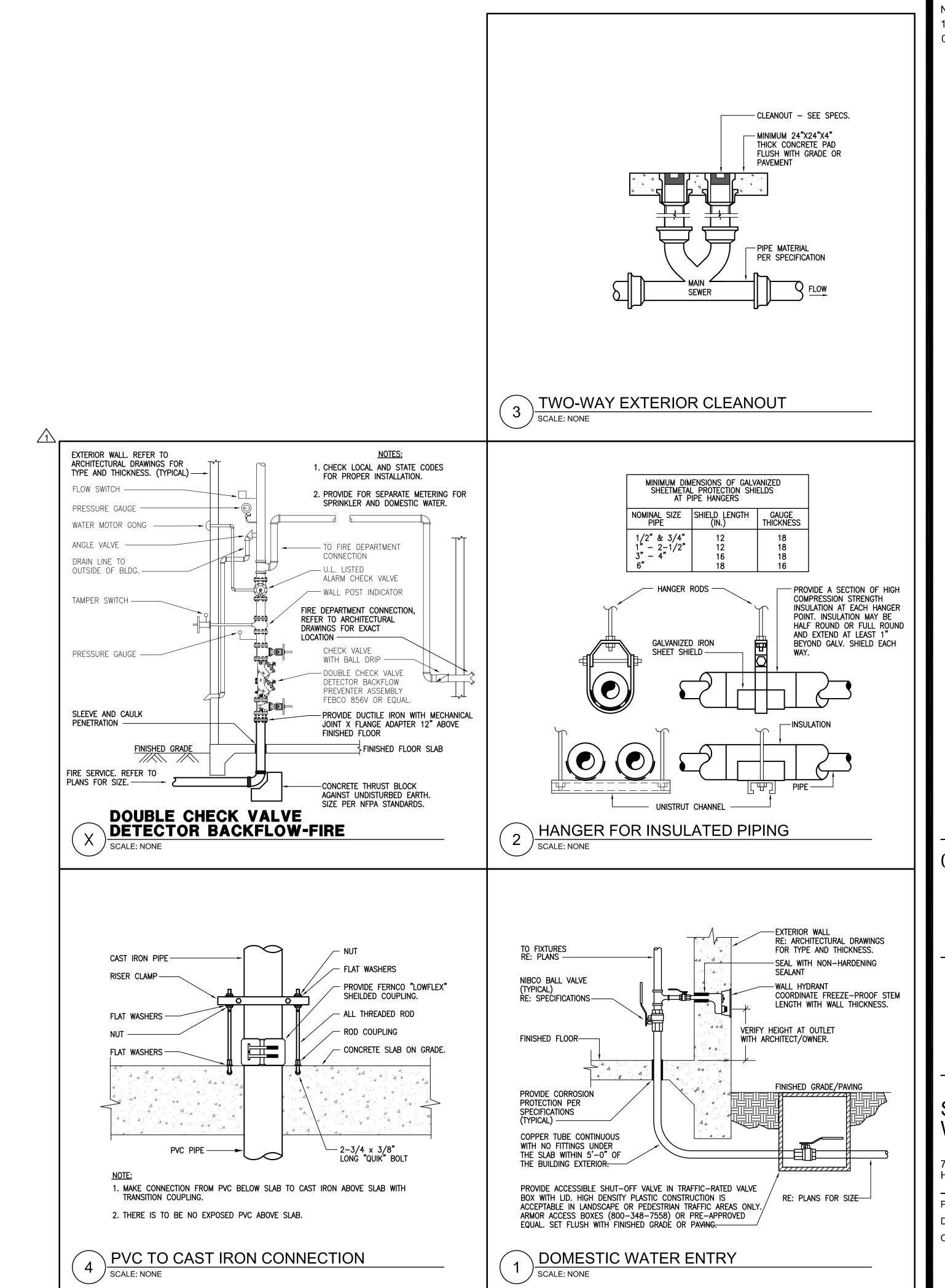
O'BRIEN

SHELL BUILDING & SITE WORK DEVELOPMENT

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18064 Project No. Drawn Checked

PLUMBING SCHEDULES, NOTES AND LEGENDS



14 SEP 2018 FOR PERMIT & REVIEW NOVEMBER 12, 2018 REVISIONS 1 NOVEMBER 14, 2018 FOR PRICING 15 MAR 2019 FOR PERMIT 02 JUL 2019 FOR CONSTRUCTION





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Project No. 18064

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PLUMBING DETAILS

heet No. P3.0

GENERAL NOTES

THE STRUCTURAL DRAWINGS DEPICT THE STRUCTURE IN ITS FINAL CONSTRUCTED CONFIGURATION. NEITHER CONSTRUCTION MEANS AND METHODS NOR CONSTRUCTION SAFETY ARE PART OF THE STRUCTURAL ENGINEER'S EXPERTISE OR SCOPE OF WORK. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS ARE FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO CONSTRUCT THE STRUCTURE AND FOR FULL COMPLIANCE WITH ALL JOB SAFETY RELATED REGULATIONS AND CONDITIONS AT THE SITE. LIMITED SITE VISITS, IF ANY, BY THE STRUCTURAL ENGINEER ARE SOLELY TO OBSERVE COMPLETED PARTS OF THE STRUCTURE. THE STRUCTURAL ENGINEER IS NEITHER QUALIFIED TO OBSERVE NOR COMMENT ON CONSTRUCTION MEANS AND METHODS AND JOB SITE SAFETY.

PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC., NOT

ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE. DETAILS SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS.

SHOP DRAWINGS SHALL BE NEW DRAWINGS PRODUCED BY THE CONTRACTOR, ILLEGIBLE REPRODUCTIONS OF THE DESIGN DRAWINGS WILL BE REJECTED. ELECTRONIC FILES MAY BE PURCHASED FROM THE ENGINEER OF RECORD FOR THE PURPOSE OF PREPARING SHOP DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO SIGN AN INDEMNITY STATEMENT AND FEES FOR THE ELECTRONIC FILES SHALL BE PAID IN FULL PRIOR TO TRANSMISSION OF THE ELECTRONIC FILES TO THE CONTRACTOR. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREIN.

MINIMUM SHOP DRAWING SUBMITTAL REQUIREMENTS INCLUDE:

- CONCRETE MIX DESIGNS FOR EACH CLASS OF CONCRETE WITH TEST DATA CONCRETE ACCESSORIES (VAPOR RETARDER, REINFORCING SUPPORT CHAIRS, VOID FORMS,
- CONCRETE REINFORCING SHOP DRAWINGS
- STRUCTURAL STEEL SHOP DRAWINGS STEEL STAIR SHOP DRAWINGS (SEALED BY A LICENSED ENGINEER)
- STEEL JOIST SHOP DRAWINGS
- STEEL DECK SHOP DRAWINGS
- TILT WALL LIFTING AND BRACING BOOKS (SEALED BY A LICENSED ENGINEER)
- COLD-FORMED TRUSS SHOP DRAWINGS (SEALED BY LICENSED ENGINEER)

PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS (SEALED BY A LICENSED ENGINEER)

COLD-FORMED METAL STUDS AND CONNECTION SHOP DRAWINGS AND CALCULATIONS (SEALED BY LICENSED ENGINEER)

CRANES, CONCRETE TRUCKS AND ALL OTHER HEAVILY LOADED VEHICLES ARE NOT TO BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS.

ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE DAYS. STRUCTURAL STEEL OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF THREE DAYS.

NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE SOIL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IT IS NOT DESIGNED FOR ANY EXTERNAL UPWARD OR DOWNWARD LOADS, IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE SOIL ENGINEER IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE SITE PREPARATION INSTRUCTIONS IN THE SOIL REPORT. THE ARCHITECT SHALL ADVISE THE OWNER THAT THE PERFORMANCE OF THE SLAB INVOLVES SOME RISKS AND IS DEPENDENT ON MANY ENVIRONMENTAL CONDITIONS OVER WHICH THE OWNER HAS CONTROL OF AFTER OCCUPANCY OF THE BUILDING. THE CONTRACTOR AND THE OWNER SHOULD CONSULT WITH THE SOIL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING CONSTRUCTION, PERFORMANCE AND RISKS INVOLVED IN GROUND SUPPORTED SLAB AT GRADE CONSTRUCTION.

DESIGN CRITERIA: BUILDING CODE: INTERNATIONAL BUILDING CODE, 2009 EDITION LIVE LOAD: ROOF: -----WIND LOAD: VELOCITY ----- 90 MPH THREE SECOND GUST FXPOSURF ---- B IMPORTANCE FACTOR, Iw= 1.0 INTERNAL PRESSURE COEFFICIENT, Gcpi ---- +/- 0.18 MAIN WIND FORCE RESISTING SYSTEM (MWFRS): MAXIMUM HORIZONTAL INTERIOR PRESSURE ---- 10 PSF MAXIMUM HORIZONTAL EXTERIOR PRESSURE --- 13 PSF (14'-0" FROM EACH CORNER) MAXIMUM GROSS UPLIFT INTERIOR ZONE ----- 11 PSF MAXIMUM GROSS UPLIFT EXTERIOR ZONE ---- 16 PSF (14'-0" FROM EACH CORNER) COMPONENTS AND CLADDING: ROOF NET UPLIFT (EFFECTIVE WIND AREA 10 SQUARE FEET): INTERIOR ZONE ----- 11 PSF EXTERIOR ZONE ---- 25 PSF CORNERS AND OVERHANGS ---- 37 PSF (7'-0" FROM EACH CORNER) COMPONENTS AND CLADDING: ROOF NET UPLIFT (EFFECTIVE WIND AREA 100 SQUARE FEET): INTERIOR ZONE ----- 13 PSF EXTERIOR ZONE ----- 16 PSF CORNERS AND OVERHANGS ----- 16 PSF (7'-0" FROM EACH CORNER) COMPONENTS AND CLADDING: WALLS(EFFECTIVE WIND AREA 50 SQUARE FEET): INTERIOR ZONE ----- 14 PSF CORNERS ---- 17 PSF (7'-0" FROM EACH CORNER) ALLOWABLE SOIL BEARING CAPACITY (AT 2'-0" BELOW FINISHED GRADE ON 24" MIN. OF SELECT FILL) TOTAL LOAD ---- 2500 PSF DEAD LOAD --- 1700 PSF

EARTHWORK

- 1. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT, VEGETATION, ORGANIC MATTER AND ANY ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING AND EXTENDING OUT A MINIMUM OF 5'-0" BEYOND THE PERIMETER OF THE BUILDING.
- 2. THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 20 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST TWO COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SO OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SELECT FILL.
- 3. SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO AN EIGHT (8) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
- 4. SELECT FILL MATERIAL FOR THE BUILDING PAD SHALL BE AN INORGANIC CLAYEY SAND WITH A LIQUID LIMIT BETWEEN 26 AND 40 AND PLASTICITY INDEX BETWEEN 10 AND 20. STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED.
- 5. SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D1557) FOR FILL DEPTHS GREATER THAN 5'-0" AND BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698) FOR FILL DEPTHS LESS THAN 5'-0". THE MOISTURE CONTENT SHALL BE BETWEEN -3 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL. SELECT FILL MATERIAL SHALL EXTEND TO THE BUILDING PERIMETER. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON EACH LIFT OF SELECT FILL OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
- 6. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10)PER
- 8. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT
- 9. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING PAD DURING BUILDING PAD INSTALLATION AND WHEN THE BUILDING PAD AND BUILDING ARE COMPLETED.
- 10. PLUMBING AND UTILITY TRENCHES WITHIN THE BUILDING PAD SHALL HAVE PIPING BEDDED ON 6" MINIMUM OF CEMENT STABILIZED SAND WITH 4" MINIMUM ALL AROUND. BACKFILL IN UTILITY TRENCHES SHALL CONSIST OF COMPACTED SELECT FILL. PROVIDE A BENTONITE PLUG FOR THE FULL DEPTH AND WIDTH OF THE UTILITY TRENCH TO A MINIMUM OF 1'-0" ABOVE THE BOTTOM OF THE FOUNDATION AT THE EXTERIOR FACE OF BUILDING FOUNDATIONS WHERE UTILITY TRENCHES ENTER THE BUILDING.
- 11. PROVIDE A MINIMUM SIX (6) INCH CLAY CAP FOR A MINIMUM OF 5'-0" AROUND THE PERIMETER OF THE BUILDING. THE CAP SHALL EXTEND AS REQUIRED TO COVER THE LIMITS OF THE EXCAVATION AND SELECT FILL BUILDING PAD MATERIALS.

SITE DRAINAGE

- 1. GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE BUILDING FOUNDATIONS OR SLABS.
- 2. DOWNSPOUTS FROM ROOF DRAINS AND GUTTERS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING. WHEN WATER IS NOT PIPED AWAY FROM THE BUILDING, DOWNSPOUTS SHALL DUMP ONTO A CAST IN PLACE 4" THICK X 3'-0" WIDE CONCRETE SWALE REINFORCED WITH #4 AT 12" ON CENTER EACH WAY AND EXTENDING 10'-0" OUT FROM THE BUILDING.
- 3. TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.
- 4. IRRIGATE VEGETATION AND SOILS ADJACENT TO BUILDING (NO MORE THAN 15 MINUTES THREE TIMES A WEEK)ON AN AS NEEDED BASIS TO MAINTAIN UNIFORM SOIL MOISTURE CONDITIONS AROUND THE PERIMETER OF THE BUILDING FOLLOWING CONSTRUCTION.

FOUNDATIONS

- 1. PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL WATER VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E 1745 (LATEST EDITION), CLASS A OR BETTER WITH MAXIMUM WATER PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE WATER VAPOR RETARDER SHALL BE INSTALLED AND LAPPED AND TAPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 1643 (LATEST EDITION). PENETRATIONS SHALL SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- 2. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A FOUNDATION DESIGN SPECIFIED IN THE SOIL REPORT BY TERRACON CONSULTANTS, INC., REPORT NO. 96185224, DATED AUGUST 24, 2018. THE RECOMMENDATIONS CONTAINED IN THE SOIL REPORT SHALL NOT SUPERCEDE THE REQUIREMENTS SHOWN ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS WHEN THE REQUIREMENTS SHOWN IN THE DRAWINGS ARE GREATER THAN THOSE SHOWN IN THE GEOTECHNICAL REPORT. THE CONTRACTOR IS REQUIRED TO SECURE A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND HAVE A COPY ON THE JOB SITE AT ALL TIMES FOR HIS USE
- 3. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A MINIMUM OF SEVEN FEET OF SELECT FILL MATERIAL BENEATH THE FLOOR SLAB AND EXTENDING TO 5'-0" BEYOND THE BUILDING PERIMETER.
- 4. ALL BACKFILL FOR BURIED PIPES AND CONDUIT WITHIN THE BUILDING PAD AND EXTENDING OUT MINIMUM 5'-0" BEYOND THE BUILDING SHALL BE BACKFILLED WITH SELECT FILL BACKFILL. DO NOT USE SAND BACKFILL. A 2'-0" WIDE BENTONITE PLUG SHALL BE PROVIDED IN ALL UTILITY TRENCHES AT THE FACE OF THE BUILDING FOUNDATION. SEE DETAIL 2/S4.2 FOR DETAIL AT PIPE BUILDING ENTRY.
- 5. CONDUITS SHALL NOT BE PLACED IN THE CONCRETE SLAB, CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL BENEATH THE VAPOR RETARDER. ALL PENETRATIONS OF THE VAPOR RETARDER SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- 6. ALL FOOTINGS SHALL BE CONSOLIDATED WITH A CONCRETE VIBRATOR AS PER THE REQUIREMENTS OF ACI 318 AND ACI 308R, LATEST EDITION.
- 7. FOOTINGS SHALL BE POURED IMMEDIATELY UPON COMPLETION OF EXCAVATION AND CLEANING OF FOOTING BEARING SURFACE. ALL SPOILS FROM THE SPREAD FOOTING EXCAVATIONS SHALL BE REMOVED FROM THE BUILDING PAD.
- 8. WHERE A FOOTING IS SHOWN ON THE PLAN CLOSER THAN 6'-0 FROM ANOTHER FOOTING, EXCAVATE ONE FOOTING, FILL WITH CONCRETE AND LET CURE 24 HOURS PRIOR TO EXCAVATING THE ADJACENT FOOTING. (6'-0" DIMENSION IS MEASURED BETWEEN EDGE OF SPREAD FOOTING NOT CENTER TO CENTER.)

CONCRETE

- 1. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE NOTED. NO. 3 BARS SHALL CONFORM TO ASTM A615, GRADE 40. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GR 70.
- 2. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND CRUSHED CARBONATE AGGREGATE CONFORMING TO ASTM C33, TYPE 1 PORTLAND CEMENT, FLYASH CONFORMING TO ASTM C618, CLASS 'C' UP TO 20 PERCENT REPLACEMENT BY VOLUME AND THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:

UNDERREAM FOOTINGS ---- 3000 PSI (w/c = 0.50 MAX) SLABS ON GRADE ----- 3000 PSI (w/c = 0.45 MAX) ALL OTHER CONCRETE ---- 3000 PSI (w/c = 0.50 MAX) TILT WALLS ----- 2500 PSI AT LIFTING

CONCRETE SUPPLIER SHALL BE AWARE OF CEMENTS THAT CAN CAUSE LATE ETTRINGITE FORMATION IN THE CEMENT PASTE AND BE PREPARED TO SHOW THAT THE CEMENTS USED WILL NOT CAUSE THIS PROBLEM.

- 3. ALL WELDED WIRE FABRIC SHALL BE SMOOTH ROUND WIRE IN FLAT SHEETS AND SHALL CONFORM TO ASTM A185.
- 4. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS; SEE SEC. 7.7 ACI 318, LATEST EDITION FOR CONDITIONS NOT NOTED. PROVIDE CHAIR SUPPORTS (AZTEC CASTLE CHAIR, WHC SERIES 'B' OR EQUAL) TO ADEQUATELY SUPPORT BARS FOR PROPER CLEARANCE AS RECOMMENDED BY THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE. SLAB ON GRADE REINFORCEMENT SHALL BE SUPPORTED AT 45-INCH MAXIMUM INTERVALS OR EVERY THIRD BAR.

FOOTINGS ---- 3 IN. GRADE BEAMS ---- 3 IN. BOT., 2 IN. SIDE (3" EARTH FORMED), 2" IN. TOP SLAB ON GRADE ----1 IN. TOP

- 5. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. VERTICAL JOINTS SHALL OCCUR AT CENTER SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.
- 6. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION. ALL HOOKED BARS SHOWN IN DETAILS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.
- 7. REINFORCING BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- 8. UNLESS OTHERWISE NOTED CONTINUOUS BOTTOM REINFORCING BARS SHALL BE SPLICED AT SUPPORTS AND CONTINUOUS TOP REINFORCING BARS SHALL BE SPLICED AT MID-SPAN.
- 9. ALL CONTINUOUS REINFORCEMENT SHALL LAP 40 BAR DIAMETERS AT SPLICES. PROVIDE $1-\#6\times6'-0$ " TOP AND BOTTOM (TWO 36" LEGS WITH 90 DEGREE BEND) AT EACH FACE OF GRADE BEAMS AT CORNERS AND INTERSECTIONS, AND AT 18" ON CENTER VERTICALLY AT
- 10. CONDUITS ARE NOT ALLOWED IN SLABS, BEAMS, WALLS OR COLUMNS. ALL CONDUITS SHALL BE SUSPENDED FROM OR ATTACHED TO THE CONCRETE STRUCTURE.
- 11. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301, LATEST EDITION.
- 12. ALL BASE PLATES AND ANCHOR RODS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR RODS SHALL BE FABRICATED FROM FULL BODIED STEEL RODS CONFORMING TO ASTM F1554 GR 36, WASHERS CONFORMING TO ASTM F884 AND NUTS CONFORMING TO ASTM A194 OR A563 AND HAVING THE SAME DIAMETER AS THE BOLT DIAMETER AND USING CUT THREADS. ROLLED THREADS ARE NOT ACCEPTABLE. BOLTS SHALL BE SET USING RIGID TEMPLATES.

TILT-UP CONCRETE WALL PANELS:

- 1. GENERAL CONTRACTOR SHALL REVIEW AND VERIFY ALL PANEL DIMENSIONS, OPENINGS, BEAM AND JOIST POCKET LOCATIONS, WELD PLATE LOCATIONS AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO CASTING PANELS.
- 2. THE PANELS ARE DRAWN VIEWED FROM THE INTERIOR, UNLESS NOTED OTHERWISE, AND SHALL BE CAST WITH THE EXTERIOR FACE DOWN.
- 3. EXPOSED EDGES SHALL BE CHAMFERED, EXCEPT AT INSIDE FACE OF OVERHEAD DOORS. SEE ARCHITECTURAL DRAWINGS AND COORDINATE ALL PANEL FINISHES, REVEALS, CHAMFERS,
- 4. THE PANELS HAVE BEEN DESIGNED FOR THE IN SERVICE CONDITIONS ONLY. ADDITIONAL REINFORCEMENT, STRONG BACKS, ETC. MAY BE REQUIRED FOR LIFTING. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PANEL LIFTING DESIGN AND METHODS. THE CONTRACTOR SHALL DISTRIBUTE CRANE LOADS ON THE SLAB ON GRADE IN SUCH A MANNER SO AS NOT TO CRACK OR OTHERWISE DAMAGE THE SLAB.
- 5. LIFTING INSERTS VISIBLE AFTER FINAL CONSTRUCTION SHALL BE PATCHED AND FINISHED TO MEET THE ARCHITECT'S APPROVAL.
- 6. TEMPORARY BRACING OF PANELS SHALL NOT BE REMOVED UNTIL AFTER GROUT HAS BEEN INSTALLED BETWEEN THE PANEL AND THE CONCRETE FOOTING, THE SLAB LEAVE OUT HAS BEEN POURED, ALL PERMANENT CONNECTIONS OF THE FLOOR AND ROOF FRAMING TO THE TILT WALL PANELS HAVE BEEN MADE AND THE FLOOR AND ROOF DIAPHRAGM CONSTRUCTION HAS BEEN COMPLETED.
- 7. PROVIDE 1-#5 (FOR EACH MAT OF STEEL) CONTINUOUS AT THE TOP AND SIDES OF PANELS. AT THE HEAD, JAMBS AND SILLS OF ALL OPENINGS AND EACH FUTURE KNOCK OUT OPENING, PROVIDE 2-#6 (1 NS AND 1 FS) THAT EXTEND 24 INCHES MINIMUM PAST
- THE LIMITS OF THE OPENINGS. 8. PROVIDE 2-#6 BOTTOM WITH STANDARD HOOK EACH END FOR SPANDREL PANELS AND ALL FULL HEIGHT PANELS.
- 9. PROVIDE 1-#5 X 4'-0" (FOR EACH MAT OF STEEL) DIAGONAL BAR AT THE CORNERS OF ALL OPENINGS, FUTURE KNOCKOUT OPENINGS, AND AT THE CORNER OF NOTCHES IN
- 10. UNLESS OTHERWISE NOTED, PROVIDE 3-#6 FULL HEIGHT BARS AT GIRDER OR BEAM BEARING LOCATIONS.
- 11. MINIMUM PANEL REINFORCEMENT SHALL BE AS FOLLOWS EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.

| PANEL STRUCTURAL THICKNESS | REINFORCEMENT |
|----------------------------|---|
| 5 1/2" TO 6 3/4" | #5 AT 12" OC VERT #4 AT 14" OC HORIZ |
| 7" TO 8 1/4" | #6 AT 12" OC VERT #4 AT 12" OC HORIZ |
| 8 1/2" TO 11 1/4" | #5 AT 12" OC VERT EA FACE #4 AT 12" OC HORIZ EA FACE |

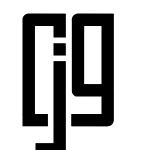
12. THE VERTICAL BARS SHALL BE CENTERED IN THE PANEL. ALLOW 1 1/2" CLEAR COVER FOR PANELS WITH TWO LAYERS OF REINFORCING. SEE PANEL ELEVATIONS FOR ADDITIONAL REINFORCING REQUIREMENTS.

STRUCTURAL STEEL

- 1. ALL GROUT USED UNDER STEEL COLUMN BASE PLATES SHALL BE OF NON-SHRINKABLE TYPE CONFORMING TO ASTM C1090 AND THE CORPS OF ENGINEERS SPECIFICATION CRD-C-621 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI. 100 PERCENT OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED. ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" SHALL HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", A PRESSURE INJECTION SYSTEM SHALL BE USED.
- 2. ALL STRUCTURAL STEEL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO ALLOWABLE STRENGTH DESIGN (ASD) ACCORDING TO THE 2005 AISC SPECIFICATION.
- 3. ALL WELDING SHALL CONFORM TO THE STANDARDS OF THE THIRTEENTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 STRUCTURAL WELDING CODE-STEEL. WELDING OF REINFORCING BARS SHALL COMPLY TO THE AMERICAN WELDING SOCIETY AWS D1.4. SHORT CIRCUIT TRANSFER FOR THE GAS METAL ARC WELDING PROCESS IS NOT PERMITTED.
- 4. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL BE CLASS E70XX.
- 5. ALL STRUCTURAL STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A992, AND ALL ANGLES, BARS, CHANNELS AND PLATES SHALL CONFORM TO ASTM A36. ALL SQUARE AND RECTANGULAR TUBES (Fy 46KSI) SHALL CONFORM TO ASTM A500 GRADE B AND ROUND PIPES(Fy 36KSI) SHALL CONFORM TO ASTM A53 GR B. ALL COLD-FORMED GIRTS AND PURLINS SHALL CONFORM TO ASTM A570M GR. 55.
- 6. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO STANDARDS OF THE AISC. DOUBLE CONNECTIONS THROUGH COLUMN WEBS, BEAMS THAT FRAME OVER THE TOP OF COLUMNS, AND BEAM TO BEAM CONNECTIONS SHALL HAVE A BEAM ERECTION SEAT OR A STAGGERED CONNECTION WITH AT LEAST ONE INSTALLED BOLT REMAINING IN PLACE TO SUPPORT THE FIRST BEAM WHILE THE SECOND BEAM IS BEING ERECTED.
- 7. CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE SELECTED FROM THE TABLES IN PART 10 OF THE THIRTEENTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. TABLE 10-1MAY BE USED FOR ALL-BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-2 MAY BE USED FOR WELDED/BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-3 MAY BE USED FOR ALL-WELDED DOUBLE ANGLE CONNECTIONS. BEAM REACTIONS USED SHALL BE ONE-HALF THE TOTAL ALLOWABLE UNIFORM LOAD GIVEN IN TABLE 3-6 THROUGH 3-9 IN PART 3 OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. CONNECTIONS FOR COMPOSITE BEAMS SHALL HAVE THE STANDARD AISC CAPACITY INCREASED BY 35 PERCENT.
- 8. ALL MISCELLANEOUS WELDS (FIELD OR SHOP) SHALL BE MINIMUM SIZE FILLET ALL AROUND IN ACCORDANCE WITH AISC. WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED. COLUMN BASE PLATES, CAP PLATES AND STIFFENER PLATES SHALL BE WELDED ALL AROUND.
- 9. PROVIDE ALL NECESSARY HOLES IN MISCELLANEOUS STRUCTURAL STEEL MEMBERS FOR ATTACHMENT OF NON-STRUCTURAL ITEMS (IE: HOLES FOR WINDOW HEAD ANCHORS), SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.
- 10. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- 11. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A325 EXCEPT WHERE NOTED OTHERWISE. MINIMUM SIZE SHALL BE 3/4 INCH DIAMETER UNLESS NOTED OTHERWISE. BOLTS SHALL BE DIRECT TENSION INDICATING BOLTS CONFORMING TO ASTM F1852 WITH HARDENED WASHERS UNDER THE NUT AND SACRIFICIAL SPLINES. HEX NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM F436.
- 12. SHOP BOLTED CONNECTIONS ARE PERMISSIBLE IF SUFFICIENT BOLT CLEARANCE IS AVAILABLE FOR TIGHTENING OF HIGH STRENGTH BOLTS. CLEARANCES SHALL BE IN ACCORDANCE WITH TABLE 7-16 AND 7-17 OF THE THIRTEENTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. ALL STEEL MEMBERS AND ASSEMBLIES SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE. TRUSSES SHALL BE FULLY SHOP ASSEMBLED. FIELD SPLICES FOR SHIPPING SHALL ONLY BE AS APPROVED BY THE ENGINEER OF RECORD. THE STEEL FABRICATOR AND THE STEEL ERECTOR SHALL COORDINATE THE SHOP FABRICATION, SHIPPING AND ERECTION OF ALL STRUCTURAL MEMBERS AND
- 13. ALL OPEN-WEB STEEL JOISTS AND BRIDGING SHALL CONFORM TO THE STEEL JOIST INSTITUTE SPECIFICATIONS FOR THE JOIST TYPES INDICATED. JOISTS SHALL BE CAMBERED. AMOUNT OF CAMBER SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. JOIST SUPPLIER SHALL ADJUST CAMBERS AT JOISTS ADJACENT TO EACH OTHER WITH VARYING LENGTHS AND AT JOISTS ADJACENT TO STEEL BEAM LINES OF SET ELEVATION SO THAT ELEVATIONS PRIOR TO ERECTION OF DECK DO NOT VARY BY MORE THAN 1" FOR ADJACENT MEMBERS. JOISTS ENDS SHALL BE STAGGERED FOR NARROW BEAMS TO ACHIEVE 2 1/2-INCH MINIMUM BEARING. STEEL FABRICATOR SHALL PROVIDE JUMPER PLATE AND STIFFENER PLATE TO MATCH BEAM FLANGE THICKNESS OFF BEAM FLANGE AS REQUIRED AT SKEWED JOIST LOCATIONS TO PROVIDE JOIST MINIMUM BEARING REQUIREMENTS. JOISTS REQUIRING REPAIR OR MODIFICATION DUE TO FABRICATION ERROR OR DAMAGE DURING SHIPPING SHALL BE REPLACED WITH NEW JOISTS.
- 14. JOIST BRIDGING SHALL BE WELDED TO STEEL BEAMS OR DECK SUPPORT ANGLES AT ENDS. AT JOIST SPANS WHERE CALLED FOR ON THE DRAWINGS OR WHERE REQUIRED BY SJI. BOLTED DIAGONAL BRIDGING NEAREST THE CENTER OF THE SPAN SHALL BE INSTALLED AT EACH JOIST PRIOR TO THE SLACKENING OF HOISTING LINES.
- 15. JOISTS SPANNING FORTY (40) FEET AND GREATER OR REQUIRING BRIDGING PER SJI SHALL HAVE AT LEAST ONE END FIELD BOLTED TO THE SUPPORT STRUCTURE BEFORE HOISTING CABLES ARE RELEASED. JOISTS SPANNING OVER SIXTY (60) FEET SHALL HAVE BOTH ENDS FIELD BOLTED TO THE SUPPORT STRUCTURE. FINAL ATTACHMENT SHALL BE IN PLACE AND BRIDGING INSTALLED PER THE REQUIREMENTS OF OSHA CONSTRUCTION SAFETY AND HEALTH STANDARDS, SUBPART R, 29 CFR 1926 BEFORE HOISTING CABLES ARE RELEASED. FINAL ATTACHMENT OF ALL JOISTS TO THE SUPPORT STRUCTURE SHALL BE WELDED PER SJI SPECIFICATIONS.
- 16. EXTEND BOTTOM CHORD OF THE THREE JOISTS NEAREST EACH COLUMN UNLESS SHOWN OTHERWISE AND BOTH ENDS OF JOIST SHALL BE FIELD BOLTED TO THE SUPPORT STRUCTURE BEFORE HOISTING CABLES ARE RELEASED. PROVIDE A 6"x6" STABILIZER PLATE TO RECEIVE JOIST BOTTOM CHORD AT ALL COLUMN LOCATIONS; THE PLATE SHALL EXTEND A MINIMUM OF 3" BELOW JOIST BOTTOM CHORD. PROVIDE A 13/16" DIAMETER HOLE IN STABILIZER PLATE FOR GUYING CABLES. PROVIDE WT6X15 OFF BEAM BOTTOM FLANGE TO RECEIVE JOIST BOTTOM CHORD EXTENSION AT JOIST LOCATED ADJACENT TO COLUMN. BOTTOM CHORD EXTENSION MATERIAL SHALL BE L2x2x1/4 MINIMUM.
- 17. ROOF SYSTEM OVER OPEN-WEB STEEL JOISTS SHALL BE RIGID INSULATION BOARD ON 1 1/2" DEEP. 22 GAGE, TYPE B GALVANIZED (CONFORMING TO ASTM A924-94, WITH MINIMUM COATING CLASS OF G90 AS DEFINED IN ASTM A653-94) DECK FROM COLD ROLLED STEEL CONFORMING TO ASTM A653-99 OR ASTM A611 WITH Fy=33 KSI, AND HAVING A MINIMUM MOMENT OF INERTIA OF 0.169 INCH TO THE FOURTH PER FOOT OF WIDTH. SIDELAPS SHALL BE FASTENED WITH #10 TEKS AT THIRD POINTS OR 1'-8" ON CENTER MAX. DECK ATTACHMENT SHALL BE HILTI X-EDNK22 THQ12 (1/8"-1/4" INCLUSIVE), X-EDN19 THQ12 (3/16"-3/8" INCLUSIVE), OR X-ENP19 (1/4" OR)THICKER) AS RECOMMENDED BY THE MANUFACTURER OR WELD DECK THROUGH 5/8" DIAMETER PUDDLE WELDS TO SUPPORTING MEMBERS AT 1'-0" ON CENTER AT END LAPS AND AT INTERMEDIATE SUPPORTS. AT SPANDREL BEAMS OR DECK SUPPORT ANGLES AND FOR A 10'-0" SQUARE AREA AT CORNERS WELD DECK TO ALL SUPPORTS AT 6" ON CENTER.
- 18. STEEL DECK SHALL ALWAYS BE INSTALLED WITH DIRECTION OF FLUTES PERPENDICULAR TO STEEL FRAMING MEMBERS. DECK SHALL BE CUT TO INSURE A MINIMUM OF THREE SPANS PER DECK WIDTH.
- 19. ALL BRICK SUPPORT ANGLES ARE DESIGNED TO FULLY SUPPORT THE BRICK VENEER WITH SOME NORMAL DEFLECTION AS THE BRICK IS INSTALLED. BRICK SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE DURING CONSTRUCTION. SHORING THE BRICK DURING CONSTRUCTION CAN RESULT IN HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.
- 20. HEADED ANCHORS SHALL BE MANUFACTURED FROM COLD DRAWN WIRE CONFORMING TO ASTM A108, GR.50 WITH FLUXED ENDS. STUDS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN ACCORDANCE WITH AWS D1.1. STUDS FOR EMBEDDED PLATES AND OTHER ANCHORS SHALL BE SHOP WELDED. STUDS FOR COMPOSITE BEAMS SHALL BE FIELD WELDED.
- 21. ALL STRUCTURAL STEEL WHICH IS OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT DIPPED GALVANIZED. ZINC COATING SHALL MEET THE REQUIREMENTS OF ASTM 123-73, WITH A MINIMUM COATING CLASS OF GR100 AND SHALL BE APPLIED AFTER FABRICATION. ALL FIELD WELDS SHALL BE GROUND SMOOTH AND TOUCHED UP WITH ZINC RICH PAINT.
- 22. STEEL COLUMNS SHALL BE SPLICED A MINIMUM OF 4'-0" ABOVE THE FINISH FLOOR IN STORIES WHERE SPLICES OCCUR. COLUMNS SHALL BE SPLICED EVERY TWO LEVELS. COLUMNS SHALL HAVE A HOLES FOR 3/4" DIAMETER SAFETY CABLES OR PLATES WITH A HOLE WELDED TO THE COLUMN. PROVIDE AN L3x3x1/4 DECK SUPPORT ANGLE ON ALL SIDES OF THE COLUMN.
- 23. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTOR'S SHALL COMPLY TO OSHA 29 CFR 1926 SUBPART R, SAFETY STANDARDS FOR STEEL ERECTION.
- 24. AS SCOPE AND PERFORMANCE DOCUMENTS, THE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THIS WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF ALL MISCELLANEOUS METAL ITEMS INDICATED, DESCRIBED, OR IMPLIED ON THE STRUCTURAL AND/OR THE ARCHITECTURAL DRAWINGS. MISCELLANEOUS STEEL ITEMS, WITHIN AN ASSEMBLY AND NOT ATTACHED TO THE STRUCTURE, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS WHETHER THEY ARE SHOWN OR NOT SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. SUCH ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO, EXTERIOR AND INTERIOR WALL ASSEMBLIES, CEILING ASSEMBLIES, PARTITION ASSEMBLIES, SHELF AND CABINET ASSEMBLIES AND ALL OTHER SIMILAR ASSEMBLIES. ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE A MINIMUM OF L4x4x1/2", C7x9.8, 3/8" PLATE OR TS4x4x3/8" UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.

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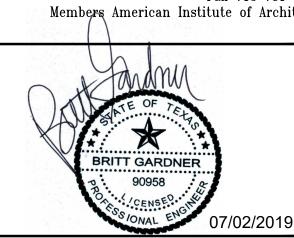
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MASONRY NOTES

- 1. ALL CONCRETE MASONRY UNITS SHALL BE HOLLOW LOAD BEARING UNITS CONFORMING TO THE REQUIREMENTS OF ASTM C90, TYPE 1 AND THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY ASSOCIATION.
- 2. ALL CONCRETE MASONRY SHALL HAVE LIGHTWEIGHT MASONRY UNITS WITH A DRY DENSITY OF NOT MORE THAN 105 POUNDS PER CUBIC FOOT.
- 3. ALL MASONRY UNITS SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 2500 PSI AND A MINIMUM NET TENSILE STRENGTH OF NOT LESS THAN 125 PSI, WHEN TESTED IN ACCORDANCE WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY ASSOCIATION.
- 4. MASONRY UNITS SHALL HAVE CURED FOR NOT LESS THAN 28 DAYS WHEN PLACED IN THE STRUCTURE.
- 5. ALL MASONRY UNITS SHALL HAVE A MAXIMUM LINEAR SHRINKAGE OF .065 OF 1% FROM THE SATURATED TO THE OVEN DRY CONDITION, WHEN TESTED IN ACCORDANCE WITH THE METHODS SET FORTH IN THE QUALITY CONTROL STANDARDS OF THE CONCRETE MASONRY ASSOCIATION.
- 6. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED IN THE RATIO OF 1 PART PORTLAND CEMENT, 1/4 PART MINIMUM TO 1/2 PART MAXIMUM LIME PUTTY OR HYDRATED LIME, DAMP LOOSE SAND NOT LESS THAN 2-1/4 AND NOT MORE THAN 3 TIMES THE SUM OF THE VOLUMES OF THE CEMENT AND LIME USED, AND SHALL CONFORM TO ASTM C270, TYPE 'S'.
- 7. GROUT FOR POURING SHALL BE OF FLUID CONSISTENCY AND MIXED IN THE RATIO BY VOLUMES, 1 PART PORTLAND CEMENT, 2 1/4 PARTS MINIMUM TO 3 PARTS MAXIMUM DAMP LOOSE SAND, 1 PART MINIMUM TO 2 PARTS MAXIMUM PEA GRAVEL, AND 0 TO 1/10 PART MAXIMUM HYDRATED LIME. MIX SHALL CONFORM TO ASTM C 476 WITH A 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI. MAXIMUM GROUT HEIGHT SHALL BE 4'-0".
- 8. GROUT FOR PUMPING SHALL BE OF FLUID CONSISTENCY AND SHALL HAVE NOT LESS THAN 7 SACKS OF CEMENT IN EACH CUBIC YARD OF GROUT. THE MIX SHALL BE SUBMITTED FOR APPROVAL.
- 9. THE COMPRESSIVE STRENGTH OF THE MASONRY (f'm) SHALL BE 1800 PSI.
- 10. ALL CELLS WITH REINFORCING BARS SHALL BE GROUTED SOLID.
- 11. ALL CELLS SHOWN TO HAVE DRILLED EXPANSION ANCHORS, EMBEDDED HEADED STUDS OR OTHER EMBEDDED
- ANCHORS SHALL BE GROUTED SOLID.
- 12. HORIZONTAL JOINT REINFORCEMENT SPACED AT 16" O.C. MAX. VERTICALLY SHALL CONFORM TO ASTM A951 WITH A MINIMUM YIELD STRENGTH OF 70,000 PSI AND A MINIMUM SIZE OF 9 GAGE FOR SIDE RODS AND 9 GAGE FOR TRUSS RODS.
- 13. OPENINGS IN MASONRY WALLS SHALL HAVE EITHER MASONRY OR STEEL LINTELS AS DETAILED ON THE DRAWINGS. WHEN NO LINTEL IS DETAILED A MINIMUM OF 2-#4 BARS IN A SOLID GROUTED LINTEL BLOCK SHALL BE INSTALLED. THE BARS SHALL EXTEND A MINIMUM OF EIGHT INCHES BEYOND THE EDGE OF THE OPENING AND THE JAMB AT EACH SIDE OF THE OPENING SHALL BE GROUTED SOLID FOR A DISTANCE OF EIGHT INCHES WITH A #5 VERTICAL MINIMUM AT EACH JAMB. LAP BARS 2'-0" MIN. OR 40 BAR DIAMETERS AT SPLICES, INTERSECTIONS AND CORNERS. STEEL LINTELS SHALL BEAR 8" MINIMUM AT EACH END ON FLASHING ABOVE AND BELOW THE ANGLE. VERTICAL CONTROL JOINTS SHALL EXTEND UP FROM THE END OF THE STEEL LINTEL, UNLESS 15# FELT OR FLASHING IS PROVIDED TOP AND BOTTOM OF LINTEL ANGLE WHERE ANGLE BEARS ON BRICK.
- 14. LINTEL BLOCKS SHALL BE "U" SHAPED UNITS WITH SOLID BOTTOMS AND ARE TO BE USED OVER WINDOW AND DOOR OPENINGS. BOND BEAM BLOCKS SHALL BE OPEN BOTTOM UNITS AND ARE TO BE USED AT THE TOPS OF WALLS AND AT THE MID—HEIGHT OF WALL OR AT 8'-O" ON CENTER VERTICALLY MAXIMUM UNLESS NOTED OTHERWISE ON THE DRAWINGS. PROVIDE 2-#4 BARS IN A SOLID GROUTED BOND BEAM UNLESS NOTED OTHERWISE. LINTEL BLOCKS SHALL NOT BE USED IN PLACE OF BOND BEAM BLOCKS.
- 15. ALL MASONRY TIES TO BACKUP STRUCTURE SHALL BE HOT DIP GALVANIZED. PROVIDE A HECKMANN NO. 315 ANCHOR WITH NO. 316 TRIANGULAR TIE ON COLUMNS AT 16" (15" AT KING SIZE BRICK) ON CENTER VERTICALLY AND A HECKMANN NO. 191 OR 192 ANCHOR ON EACH SIDE ALL BEAMS AT 16" ON CENTER HORIZONTALLY UNLESS NOTED OTHERWISE ON THE DRAWINGS. MASONRY TIES TO WALL STUDS SHALL BE A HECKMANN NO. 316 TRIANGULAR TIE WITH A HECKMANN NO. 315—C SCREW ON ANCHOR STRAP OR HECKMANN #77 WING NUT POS—I—TIE ANCHOR SPACED 16" (15" AT KING SIZE BRICK) ON CENTER HORIZONTALLY AND 16" ON CENTER VERTICALLY. AT ALL CORNERS AND INTERSECTIONS PROVIDE TWO VERTICAL ROWS OF ANCHORS SPACED 16" APART AND 16" ON CENTER VERTICALLY. TRIANGULAR TIES SHALL EXTEND 3/4" FROM FACE OF MASONRY. ANCHOR STRAPS SHALL BE ATTACHED TO METAL STUDS WITH TWO (2) #10—16x 1 1/2" CADMIUM PLATED HEX HEAD SHEET METAL SCREWS WITH NEOPRENE WASHER.
- 16. MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT APPROXIMATELY SIXTEEN (16) FEET ON CENTER AND FOUR (4) FEET MAXIMUM FROM CORNERS. COORDINATE THE LOCATION OF JOINTS WITH THE ARCHITECT. PROVIDE HECKMANN NO. 351 CONTROL JOINT ANCHORS AT 16" ON CENTER VERTICALLY AT BRICK MASONRY AND HECKMANN NO. 350 CONTROL JOINT ANCHORS AT 16" ON CENTER VERTICALLY AT CONCRETE MASONRY UNITS.
- 17. AT FREE VERTICAL EDGES OF WALLS PROVIDE 1-#5 VERTICAL IN GROUT FILLED END CORE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 18. PROVIDE A MINIMUM OF #4 AT 48" ON CENTER VERTICAL WALL REINFORCING AND DOWELS IN FULLY GROUTED CELLS AT ALL EXTERIOR AND INTERIOR WALLS UNLESS A GREATER REINFORCING IS SHOWN ON THE PLANS OR IN THE DETAILS. PROVIDE 1/2" DIAMETER DEFORMED BAR ANCHORS AT 48" ON CENTER WELDED TO STRUCTURAL MEMBERS SUPPORTING MASONRY ABOVE UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 19. PROVIDE HOHMANN AND BARNARD RB-8 (OR EQUAL) REBAR POSITIONERS AT EVERY THIRD COURSE AND AT SPLICE LOCATIONS.
- 20. ALL MASONRY DESIGN IS BASED CHAPTER 21 OF INTERNATIONAL BUILDING CODE, LATEST EDITION AND ACI 530, LATEST EDITION.

COLD-FORMED STEEL NOTES

- 1. COLD—FORMED STEEL JOISTS AND ACCESSORIES SHALL CONFORM TO ASTM A446 LATEST EDITION, GRADE A, C OR D. COLD—FORMED STEEL MEMBERS SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATION FOR THE DESIGN OF COLD—FORMED STRUCTURAL MEMBERS. MINIMUM YIELD STRESS SHALL BE 33,000 FOR GRADE A, 40,000 PSI FOR GRADE C AND 50,000 PSI FOR GRADE D.
- 2. PLYWOOD WALL SHEATHING OVER COLD-FORMED STEEL STUDS SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. SPAN RATING SHALL BE 32/16. SCREW PLYWOOD AT 4" O.C. ALONG PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 1 15/16 INCH 8-18 PILOT POINT BUGLE HEAD SCREWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. EXTERIOR GYPSUM SHEATHING (SEE ARCHITECTURAL DRAWINGS) SHALL BE SCREWED AT 4" O.C. ALONG PANEL EDGES WITH 1 15/16 INCH 8-18 PILOT POINT BUGLE HEAD SCREWS.
- 3. ROOF SYSTEM OVER COLD-FORMED TRUSSES SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. SPAN RATING SHALL BE 32/16. INSTALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS. SCREW PLYWOOD TO JOISTS WITH 1 15/16 INCH LONG #8-18 PILOT POINT BUGLE HEAD SCREWS WITH CLIMASEAL COATING AT 6" O.C. (4" O.C. IN COASTAL ZONES) ALONG PANEL EDGES AND 1'-0" O.C. AT INTERMEDIATE SUPPORTS AND BLOCKING.
- 4. COLD-FORMED WALL STUDS SHALL CONFORM TO ASTM A446 LATEST EDITION, GRADE A, C OR D. COLD-FORMED STEEL MEMBERS SHALL CONFORM TO THE LATEST EDITION OF THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS, MINIMUM YIELD STRESS SHALL BE 33,000 FOR GRADE A, 40,000 PSI FOR GRADE C AND 50,000 PSI FOR GRADE D. STUD BRACING SHALL CONSIST OF A 1 1/2 INCH, 16 GAGE 'U' CHANNEL SPACED AT 4'-0" ON CENTER VERTICALLY WITH A 1 1/2 INCH x 1 1/2 INCH BY 16 GAGE CLIP ANGLE WITH TWO (2) #10-16 SCREWS TO BRIDGING AND STUD OR BRIDGECLIP AS MANUFACTURED BY THE STEEL NETWORK.
- 5. PROVIDE TRIPLE STUDS AT ALL CORNERS AND AT ALL BEAM BEARINGS THROUGH TO FOUNDATION UNLESS NOTED OTHERWISE.
- 6. ANCHOR METAL RUNNER TRACK 18 GA. MINIMUM TO CONCRETE WITH .145" DIAMETER BY 1 1/2" EMBED HILTI X-DNI POWDER DRIVEN PINS AT 12" ON CENTER. SPACE PINS AT 9" ON CENTERS WITHIN 12'-0" OF BUILDING CORNERS. PROVIDE A MINIMUM OF TWO PINS PER PIECE OF TRACK AND PROVIDE ONE PIN 6" MAXIMUM FROM ENDS OF TRACK.
- 7. TRUSS MANUFACTURER SHALL SUBMIT DRAWINGS FOR APPROVAL SHOWING ALL MEMBER FORCES, SIZES AND CONNECTORS. DRAWINGS SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ALL TEMPORARY AND PERMANENT BRACING OF THE TRUSSES SHALL BE DESIGNED AND DETAILED BY A LICENSED ENGINEER.
- 8. TYPICAL TRUSS LOADING IS SHOWN ON THE DRAWINGS. THE MANUFACTURER SHALL EXAMINE THE DRAWINGS FOR SPECIAL CONDITIONS AND/OR LOADS NOT SHOWN AND PROVIDE FOR SUCH IN THE DESIGN.
- 9. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BRACING FOR COLD-FORMED TRUSSES.
- 10. PLANS AND DETAILS FOR FRAMING ARE A SCHEMATIC REPRESENTATION OF THE FRAMING AT VARIOUS LOCATIONS AND CONDITIONS ON THIS PROJECT. THE CONTRACTOR SHALL NOT SCALE OR COUNT FRAMING MEMBERS SHOWN AS A SUBSTITUTE FOR SHOP DRAWINGS AND AN ACCURATE QUANTITY TAKEOFF. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FRAMING NECESSARY TO COMPLETELY FRAME THE PROJECT AND PROVIDE FOR ALL CONDITIONS SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 11. JOIST AND RAFTER HANGERS, TIES, HOLDDOWNS AND OTHER PRE—ENGINEERED CONNECTORS SHALL BE "SIMPSON STRONG—TIE" OR APPROVED EQUAL. SIZE AND USAGE SHALL BE AS SHOWN ON THE DRAWINGS, SPECIFIED IN THESE NOTES AND AS RECOMMENDED BY THE MANUFACTURER.

STRUCTURAL TESTING AND INSPECTIONS

EARTHWORK TESTING

- 1. DURING EARTHWORK OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:
- A. OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.
- B. OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING. DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.
- C. VERIFY THAT THE SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO A SIX (6) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
- D. STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AN INORGANIC CLAYEY SAND CLAY WITH LIQUID LIMIT BETWEEN 26 AND 40 AND PLASTICITY INDEX BETWEEN 10 AND 20.
- E. SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698) FOR FILL DEPTHS GREATER TEHAN 5'-0" AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698) FOR FILL DEPTHS LESS THAN 5'-0". THE MOISTURE CONTENT SHALL BE BETWEEN -3 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL. VERIFY THAT SELECT FILL MATERIAL EXTENDS TO 5'-0" BEYOND THE BUILDING PERIMETER.
- F. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.
- H. OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
- I. OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.

SPREAD FOOTINGS TESTING

- 1. DURING SPREAD FOOTING OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:
- A. OBSERVING THE BOTTOM OF FOOTING FOR CLEANLINESS.
- B. CHECKING FOOTING BOTTOM FOR PROPER BEARING MATERIAL.
- C. NOTING DEPTH AND SIZE OF ALL FOOTINGS.
- D. VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT AND CLEAR COVER REQUIREMENTS.
- E. CHECK FOR CAVING OF FOOTING WALLS.
- F. CHECKING THAT THE PILASTER IS CONCENTRIC WITH THE FOOTING.
- G. CHECKING THAT COLUMN OR GRADE BEAM DOWELS ARE LOCATED PROPERLY.
- 2. ENSURE THAT THE SPOILS FROM THE FOOTING EXCAVATIONS ARE REMOVED FROM THE BUILDING PAD.

CONCRETE TESTING

- 1. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW INDICATING CONFORMANCE WITH ACI 318, LATEST EDITION, CHAPTER 5, SECTION 5.3.
- 2. SLUMP TESTS, CONFORMING TO ASTM C143, SHALL BE TAKEN AT THE POINT OF DISCHARGE AT THE SAME RATE AS NOTED BELOW IN NOTE NUMBER 5.
- 3. AIR CONTENT TESTS CONFORMING TO ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; SHALL BE TAKEN FOR EACH DAY'S POUR OF EACH TYPE OF AIR—ENTRAINED CONCRETE.
- 4. CONCRETE TEMPERATURE SHALL BE TESTED HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.
- 5. ONE SET OF FOUR COMPRESSION TEST SPECIMENS CONFORMING TO ASTM C31 SHALL BE MOLDED AND STORED FOR LABORATORY—CURED SPECIMENS. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C39 AND SHALL CONSIST OF ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 50 CU. YDS. MORE THAN THE FIRST 25 CU. YDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. ONE SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO SPECIMENS SHALL BE TESTED AT 28 DAYS, AND ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING AS REQUIRED.
- 6. VERIFY CONCRETE IS BEING CONSOLIDATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 318 AND ACI 309R, LATEST EDITION.
- 7. VERIFY THAT POST INSTALLED ANCHORS ARE AS SPECIFIED AND THAT ANCHORS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

REINFORCING STEEL INSTALLATION

- 1. DURING CAST—IN—PLACE CONCRETE STRUCTURAL MEMBER REINFORCING PLACEMENT OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. INSPECT REINFORCING UTILIZING ACI 311.4R "GUIDE FOR CONCRETE INSPECTION" AS A GUIDE. SERVICES PROVIDED SHALL INCLUDE:
- A. VERIFY TYPE AND GRADE OF ALL REINFORCING STEEL.
- B. VERIFY REBAR IS FREE OF OIL, DIRT, EXCESSIVE RUST AND FROM DAMAGE IN SHIPMENT TO SITE.
- C. VERIFY REINFORCING IS ADEQUATELY TIED, CHAIRED AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.
- D. VERIFY MINIMUM AND MAXIMUM CLEAR DISTANCES BETWEEN BARS AND MINIMUM STRUCTURAL DISTANCE TO OUTSIDE OF CONCRETE.
- E. VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT.
- F. VERIFY MINIMUM CONCRETE COVER IS MAINTAINED BETWEEN REBAR AND SURFACE OF CONCRETE.
- G. VERIFY SIZE AND PLACEMENT OF REBAR. VERIFY LAP LENGTHS, LOCATIONS AND STAGGERS AND VERIFY BENDS FOR MINIMUM DIAMETER, SLOPE AND LENGTH. VERIFY HOOKED BAR LENGTHS AND LOCATIONS.

STRUCTURAL STEEL TESTING

- 1. CERTIFY WELDERS FOR THE WELD TYPES IN THE PROJECT AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED, AS A MINIMUM, WELDERS SHALL BE AISC CERTIFIED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.
- 2. VISUALLY INSPECT 100% OF ALL FILLET WELDS.
- 3. VISUALLY INSPECT 100% OF ALL FULL PENETRATION WELDS, TEST 20% OF ALL FULL PENETRATION WELDS BY ONE OF THE FOLLOWING METHODS: LIQUID PENETRANT INSPECTION (ASTM E165), MAGNETIC PARTICLE INSPECTION (ASTM E709; PERFORMED ON THE ROOT PASS AND ON THE FINISHED WELD; CRACKS AND ZONES OF INCOMPLETE FUSION OR PENETRATION IS NOT ACCEPTABLE), RADIOGRAPHIC INSPECTION (ASTM E94 AND ASTM E142; MINIMUM QUALITY LEVEL OF "2-2T"), OR ULTRASONIC INSPECTION (ASTM E164). IF FAILURE RATE IS 20% OR GREATER, TEST 100% OF WELDS AT CONTRACTOR'S EXPENSE UNTIL FAILURE RATE FALLS BELOW 20%
- 4. ALL WELDS THAT FAIL SHALL BE REWELDED AND RETESTED UNTIL THEY PASS THE TEST. TEST TWO ADDITIONAL WELDS AT THE CONTRACTOR'S EXPENSE FOR EVERY WELD FAILURE.
- 5. BOLTS SHALL BE VISUALLY INSPECTED WHEN TWIST—OFF SPLINES ARE USED, OTHERWISE BOLTS SHALL BE SNUG TIGHT
- 6. ALL FULL PENETRATION WELDS AT MOMENT CONNECTIONS REQUIRING TESTING SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY USING NON—DESTRUCTIVE TESTING METHODS. FOR SHOP WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR TO SHIPPING TO THE JOB SITE. FOR FIELD WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR FLOOR DECK INSTALLATION AND CONCRETE PLACEMENT AND PRIOR TO COVERING CONNECTIONS WITH FIREPROOFING OR ARCHITECTURAL FINISHES.

STRUCTURAL TESTING AND INSPECTIONS (CONTINUED)

MASONRY TESTING

- 1. MASONRY TESTING SHALL CONSIST OF A QUALIFIED TESTING LABORATORY PROVIDING THE FOLLOWING SERVICES:
- A. VERIFY QUANTITY, SIZE AND SPACING OF REQUIRED REINFORCING SHOWN ON THE DRAWINGS.
- B. OBSERVE THE INSTALLATION OF MASONRY UNITS.
- C. INSPECTION OF GROUT SPACE, IMMEDIATELY PRIOR TO CLOSING OF CLEANOUTS AND PRIOR TO ALL GROUTING OPERATIONS. VERIFY THAT THE SPECIFIED CELLS HAVE BEEN FULLY GROUTED.
- D. MONITOR THE PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT. PROVIDE 28 DAY COMPRESSIVE STRENGTH TESTS ON EACH GROUT MIX IN ACCORDANCE WITH ASTM C1019. COMPRESSION TEST MASONRY PRISMS FOR EACH TYPE OF WALL CONSTRUCTION IN ACCORDANCE WITH ASTM C1314. CONTRACTOR SHALL PREPARE ONE SET OF PRISMS FOR TESTING AT 28 DAYS. TESTS ARE TO BE CONDUCTED FOR EACH 2000 SQUARE FEET OF WALL INSTALLED, BUT NOT LESS THAN TWO TESTS.

SPECIAL INSPECTIONS

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S SCOPE OF SERVICES. THE OWNER IS RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR APPROVED BY THE BUILDING AUTHORITY OR BY THE ENGINEER OF RECORD. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE OWNER IF SPECIAL INSPECTIONS ARE REQUIRED ON THE APPROVED PERMIT DRAWINGS AND FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER PRIOR TO PROCEEDING WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE. THE STRUCTURAL ENGINEER WILL NOT PROVIDE A FINAL LETTER OF COMPLIANCE AFTER THE WORK IS COMPLETE UNLESS HE HAS PERFORMED THE SPECIAL INSPECTIONS.

CHAPTER 17 OF THE 2009 INTERNATIONAL BUILDING CODE IS INTERPRETED TO REQUIRE SPECIAL INSPECTION FOR THE FOLLOWING ITEMS:

SOILS (SECTION 1704.7):

SITE PREPARATION SECTION 1704.7.1
FILL PLACEMENT SECTION 1704.7.2
EVALUATION OF IN-PLACE DENSITY SECTION 1704.7.3

CONCRETE CONSTRUCTION (SECTION 1704.4/TABLE 1704.4):

MATERIALS SECTION 1704.4.1
REINFORCING INSTALLATION PLACEMENT TABLE 1704.4.1
BOLTS EMBEDDED IN CONCRETE TABLE 1704.4.3

STEEL CONSTRUCTION (SECTION 1704.3):

INSPECTION OF FABRICATORS
STRUCTURAL WELDING
DETAILS
INSTALLATION OF HIGH-STRENGTH BOLTS
SECTION 1704.2
SECTION 1704.3.1
SECTION 1704.3.2
SECTION 1704.3.3

MASONRY CONSTRUCTION (SECTION 1704.5/TABLE 1704.5.1)

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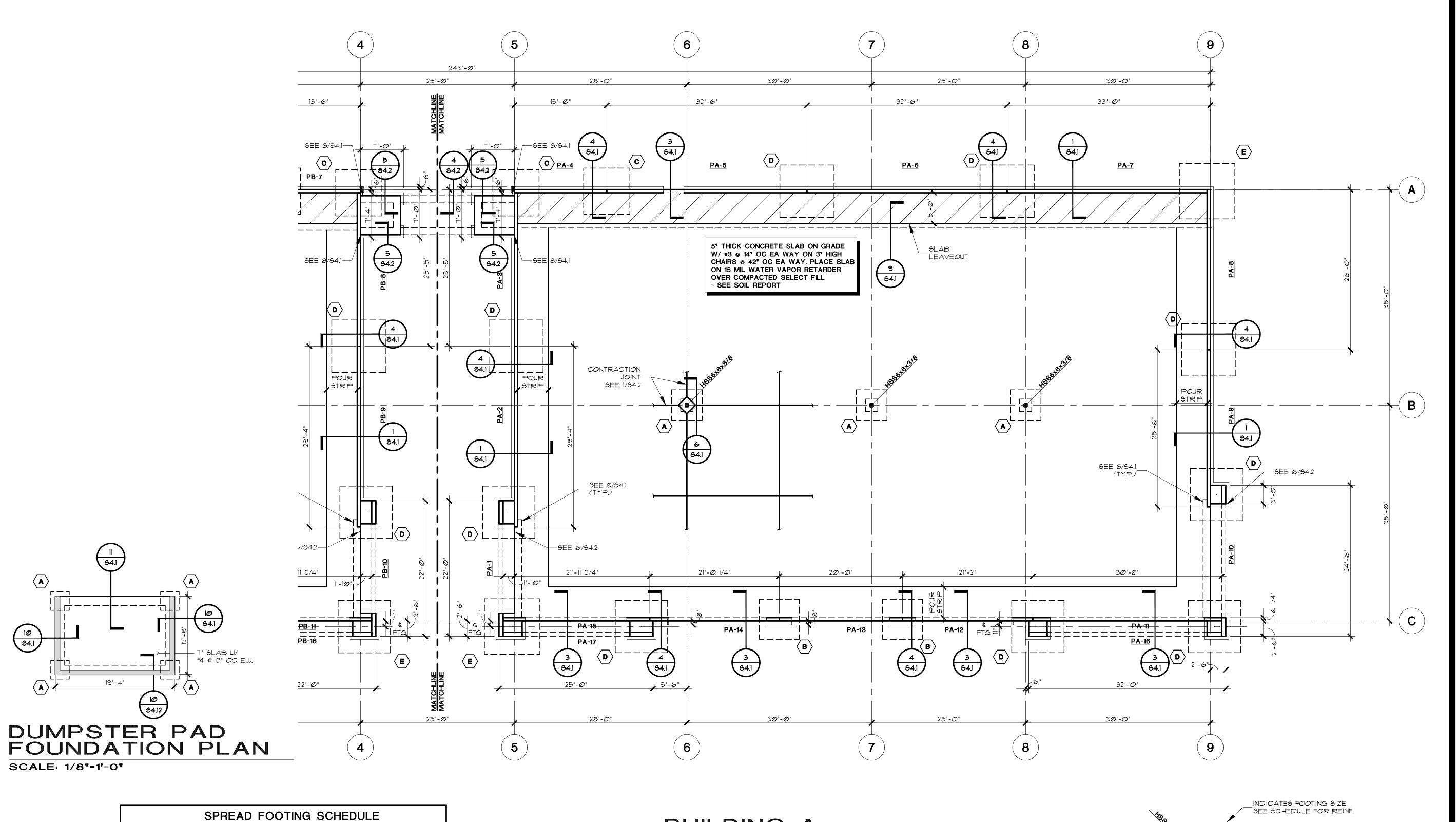
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GENERAL NOTES

Sheet No



BUILDING A FOUNDATION PLAN

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

INDICATES COLUMN SIZE SEE 12/64.1 FOR BASE— PLATES & ANCHOR BOLT

LEGEND

 $\langle \mathbf{A} \rangle$

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

REINFORCEMENT

LONG WAY

(6) - #6

(7) - #7

(8) - #8

(9) - #8

A 5'-0" 5'-0"

(B) 6'-6" 6'-6"

7'-6**"**

8'-6"

1'-2"

1'-6"

1'-6"

1'-10"

SHORT WAY

(6) - #6

(7) - #7

(8) - #8

(9) - #8

REMARKS

1Ø 54.l

BUILDING A FOUNDATION PLAN S1.1 2181072

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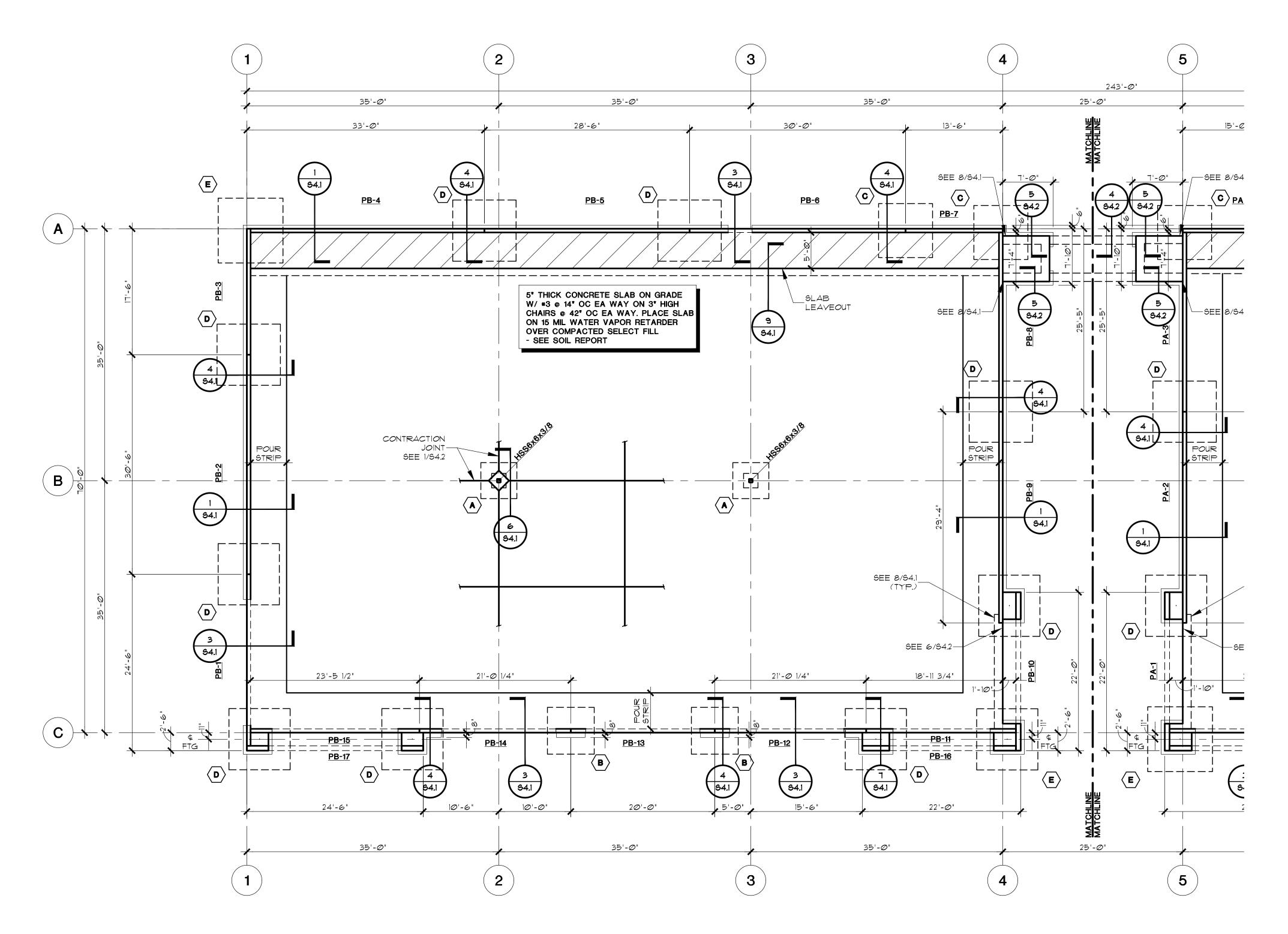
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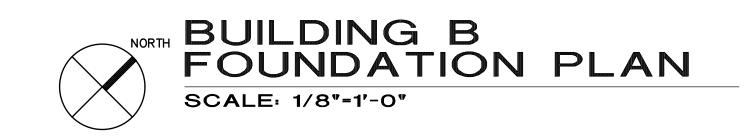
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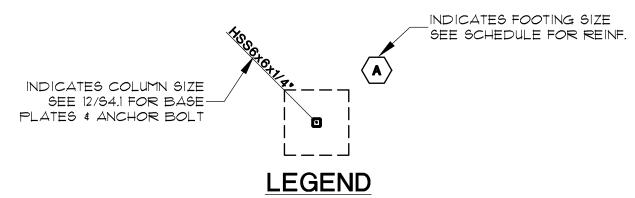
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| | | | SPRE | AD FOOTING | 3 SCHEDULE | |
|---------------------|---------------|---------------|--------|------------|------------|---------|
| MARK | LENGTH | WIDTH | THICK. | REINFOF | RCEMENT | DEMARKO |
| IVIANN | 'A' | 'B' | 'T' | LONG WAY | SHORT WAY | REMARKS |
| $\langle A \rangle$ | 5'-0" | 5'-0" | 1'-2" | (6) - #6 | (6) - #6 | |
| B | 6'-6 " | 6'-6 " | 1'-6" | (7) - #7 | (7) - #7 | |
| (C) | 7'-6" | 7'-6" | 1'-6" | (8) - #8 | (8) - #8 | |
| D | 8'-6 " | 8'-6 " | 1'-10" | (9) - #8 | (9) - #8 | |
| E | 9'-0" | 9'-0" | 1'-10" | (9) - #8 | (9) - #8 | |





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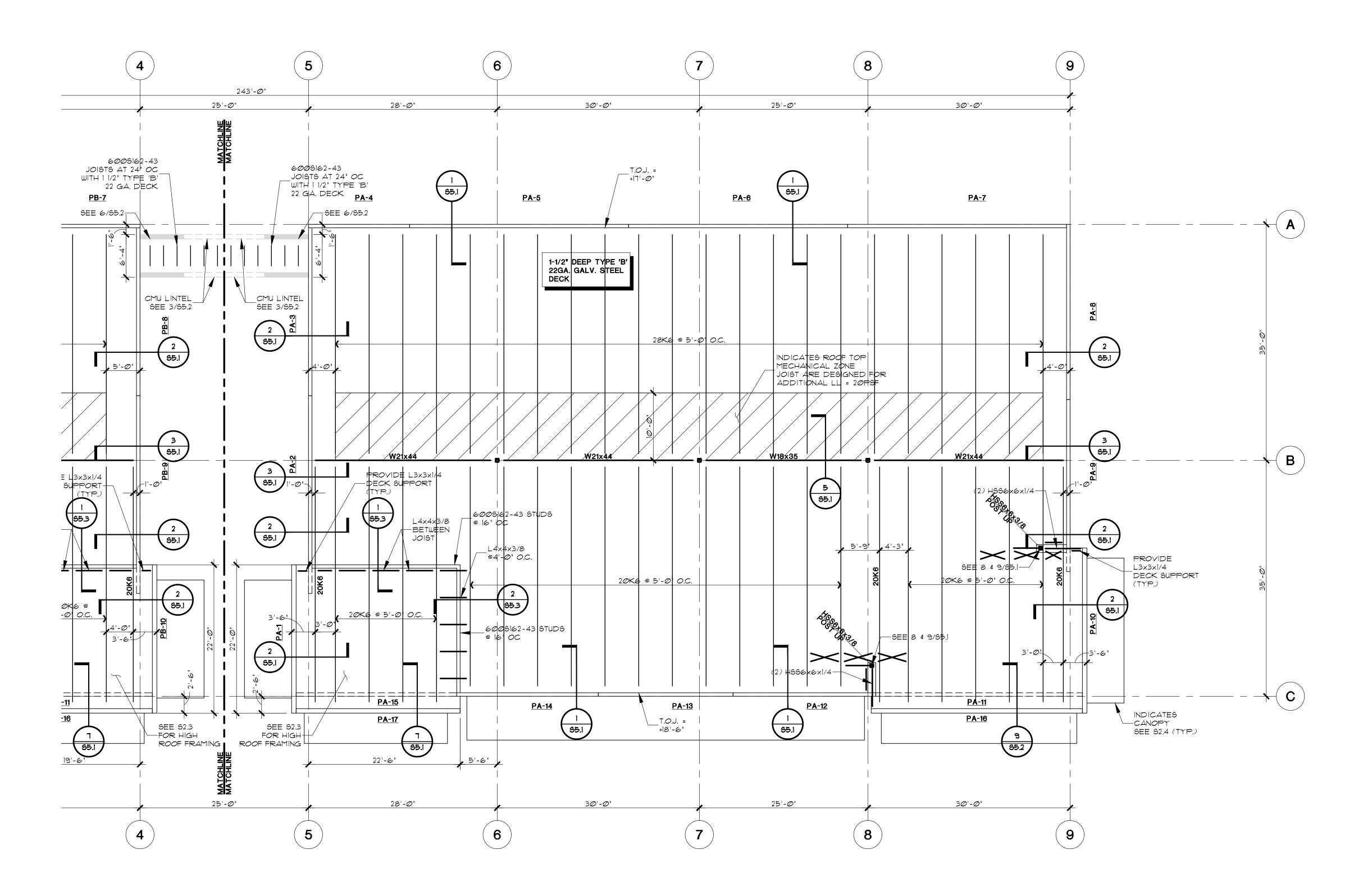
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BUILDING B FOUNDATION PLAN

S1.2





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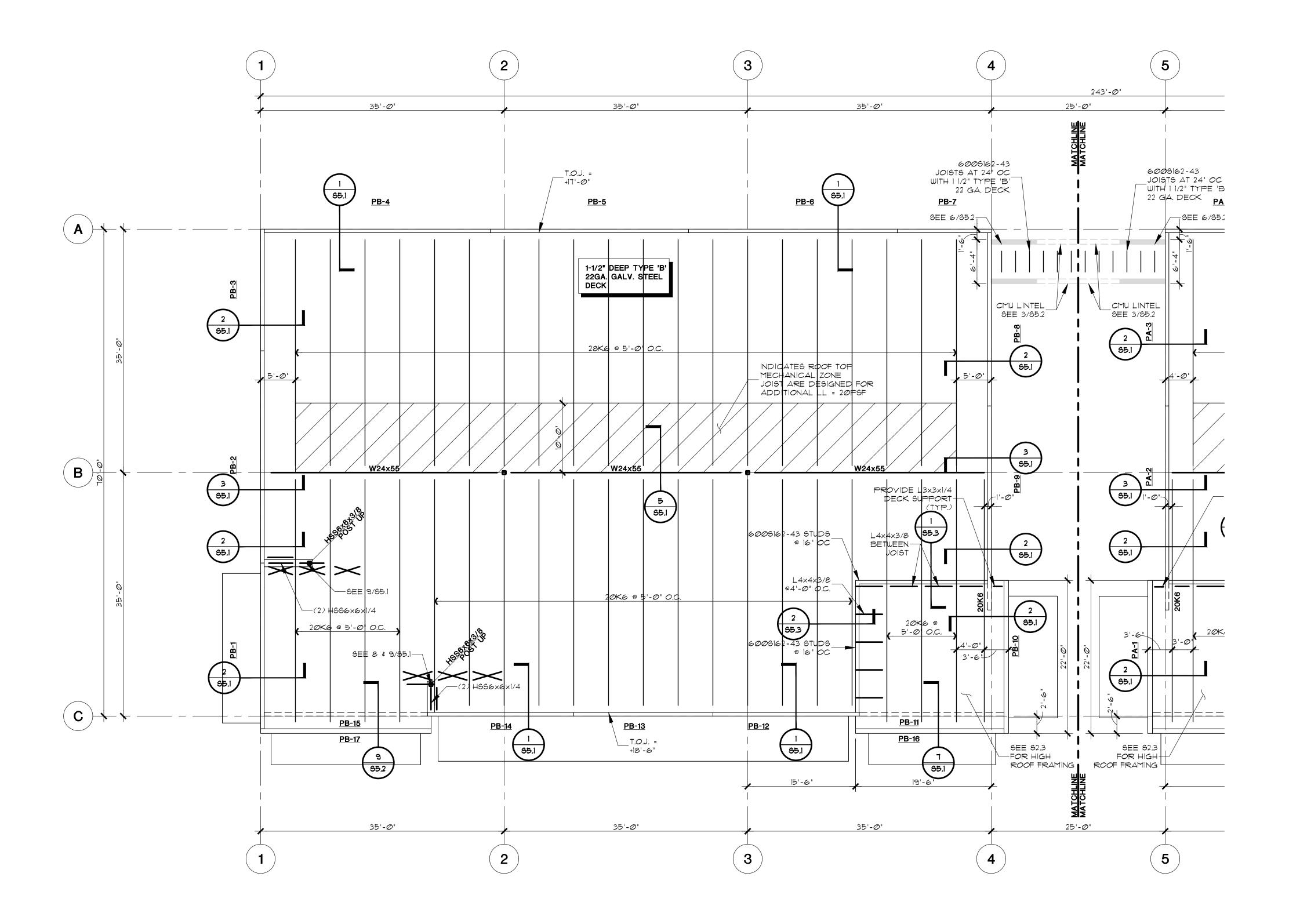
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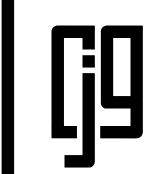
BUILDING A ROOF FRAMING PLAN

S2.1





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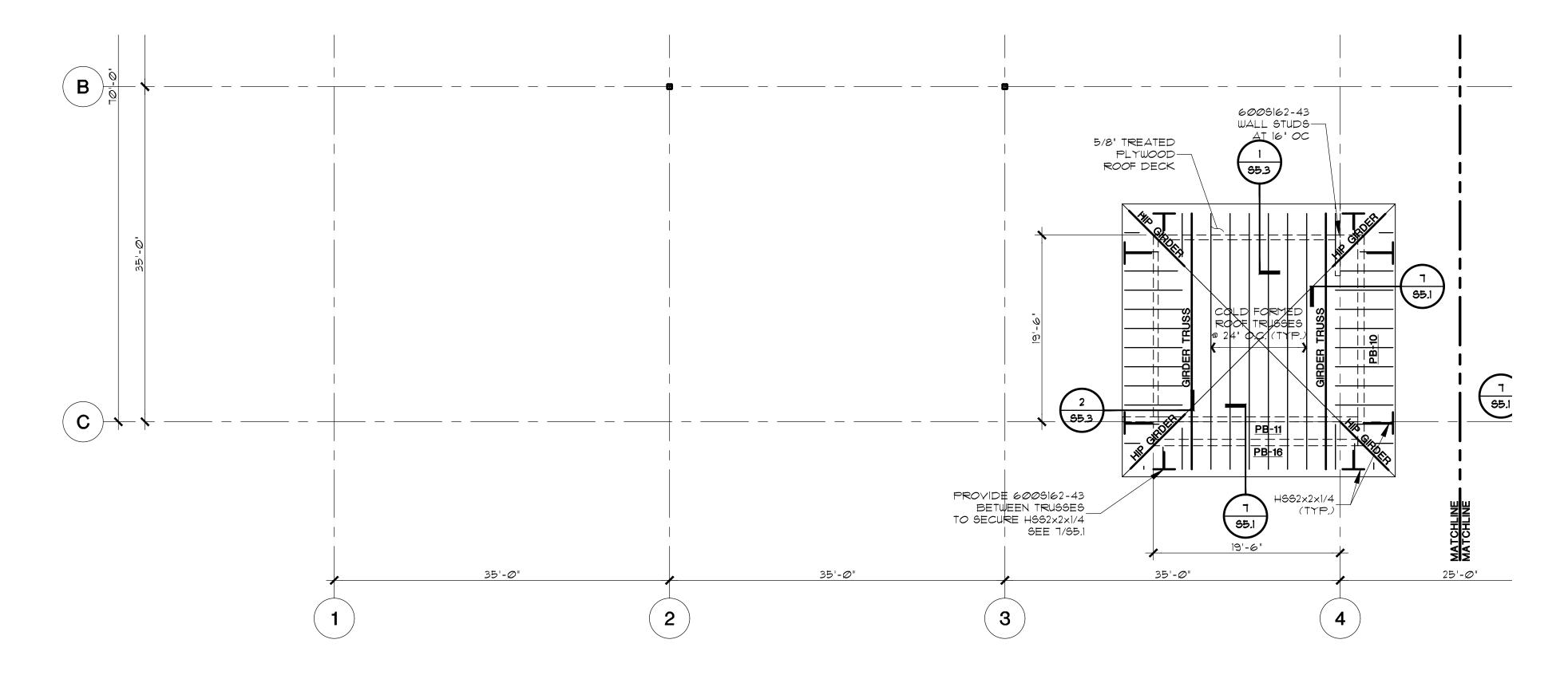


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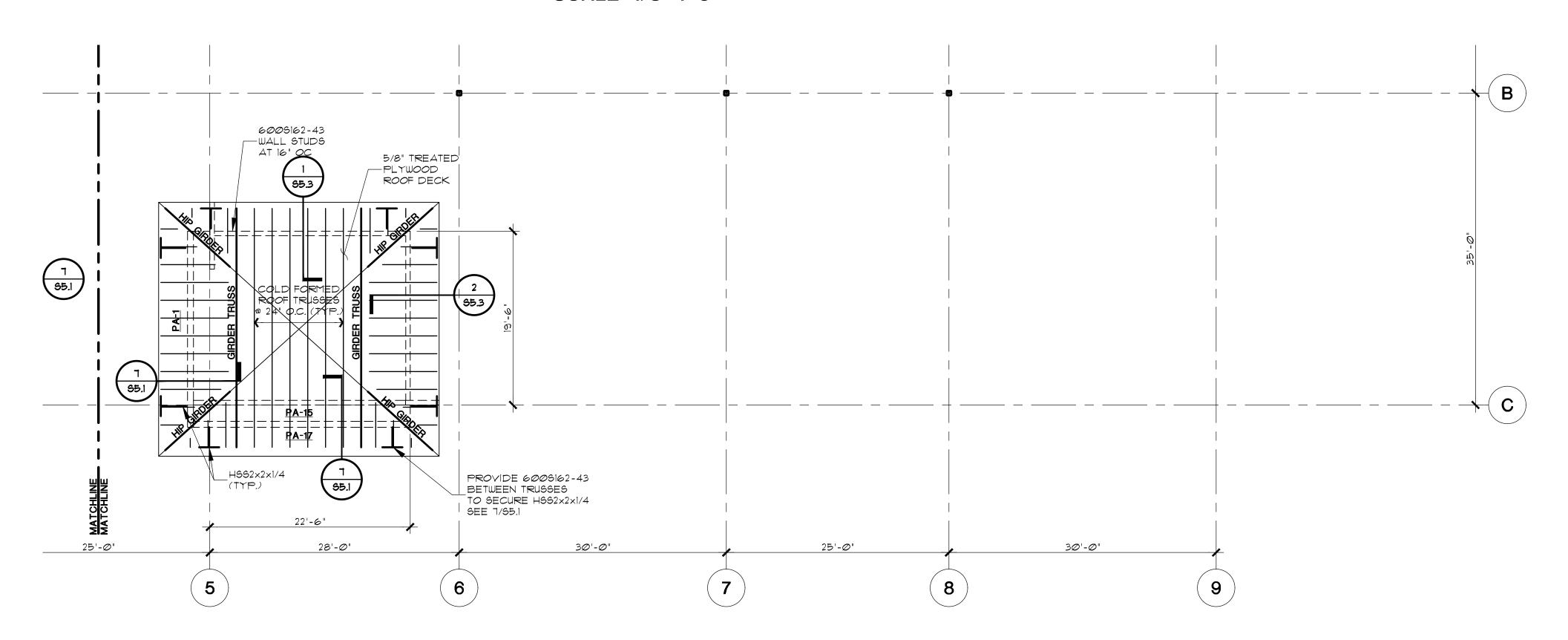
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BUILDING B

ROOF FRAMING PLAN S2.2



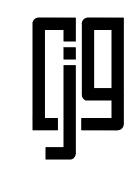
BUILDING B HIGH ROOF FRAMING PLAN SCALE: 1/8"=1'-0"



BUILDING A HIGH ROOF FRAMING PLAN SCALE: 1/8"=1'-0"

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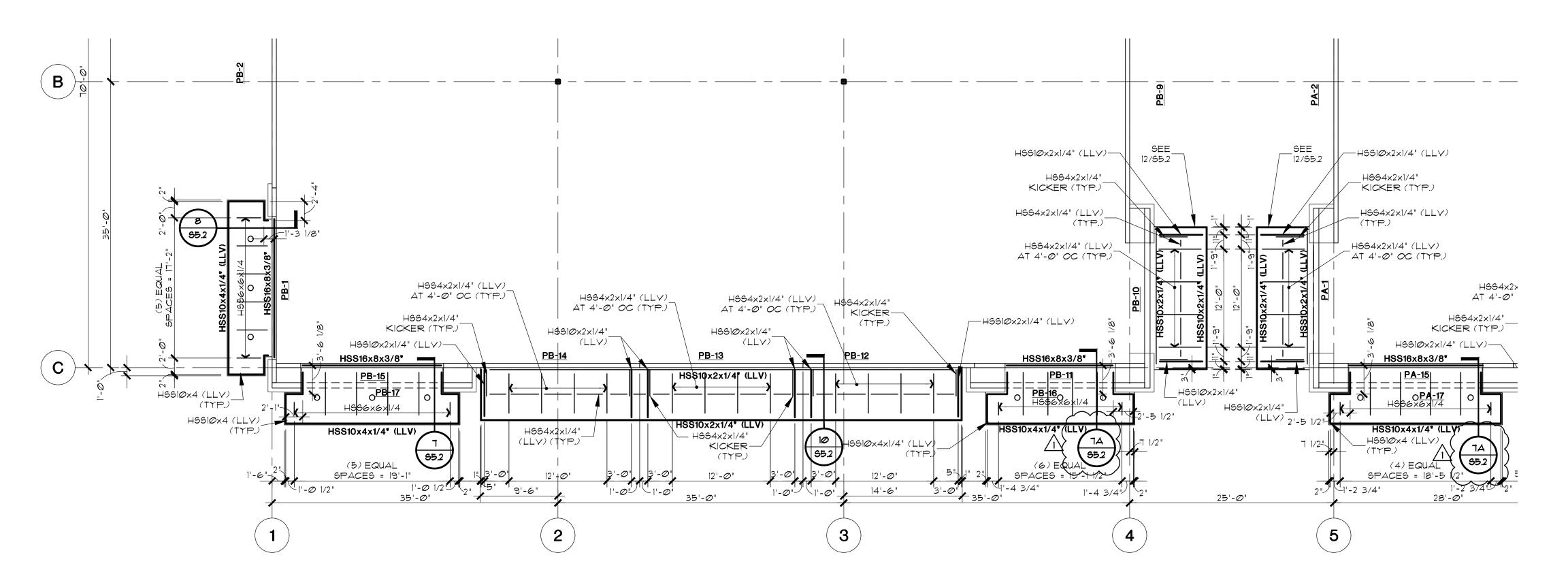
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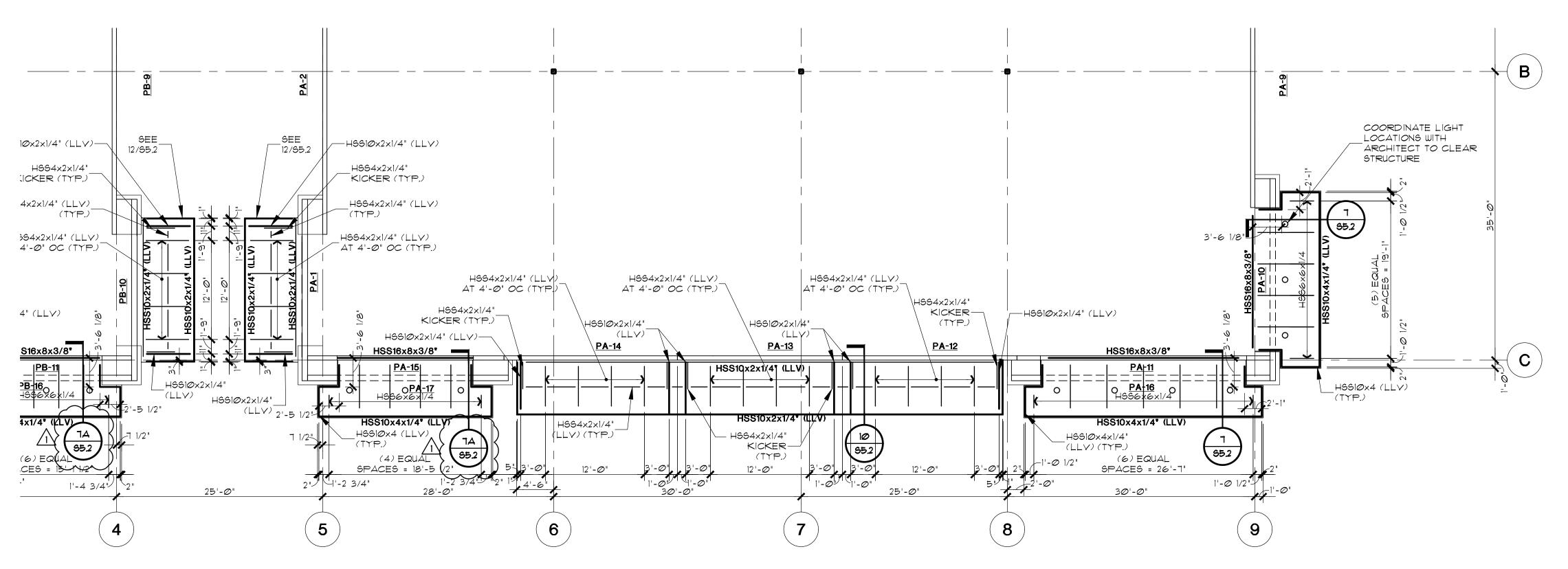
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HIGH ROOF FRAMING PLAN





BUILDING B CANOPY FRAMING PLAN SCALE: 1/8"=1'-0"



BUILDING A CANOPY FRAMING PLAN SCALE: 1/8"=1'-0"

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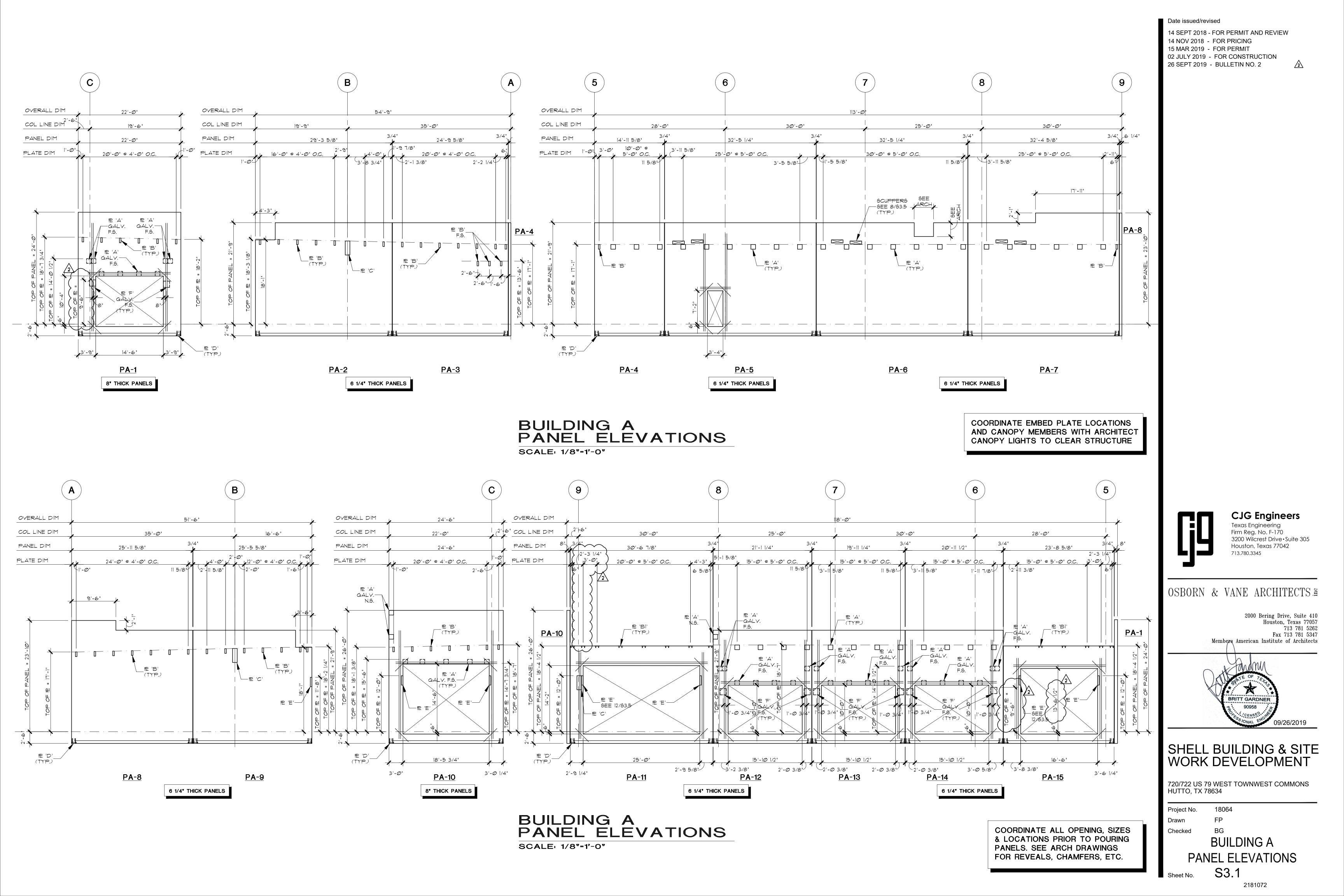
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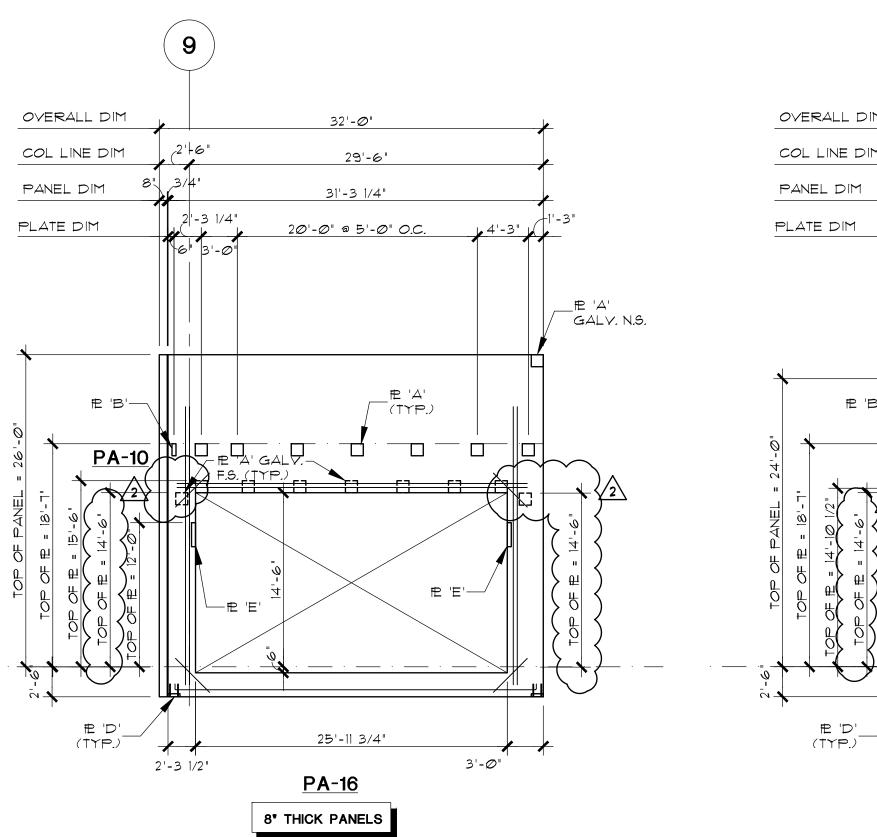
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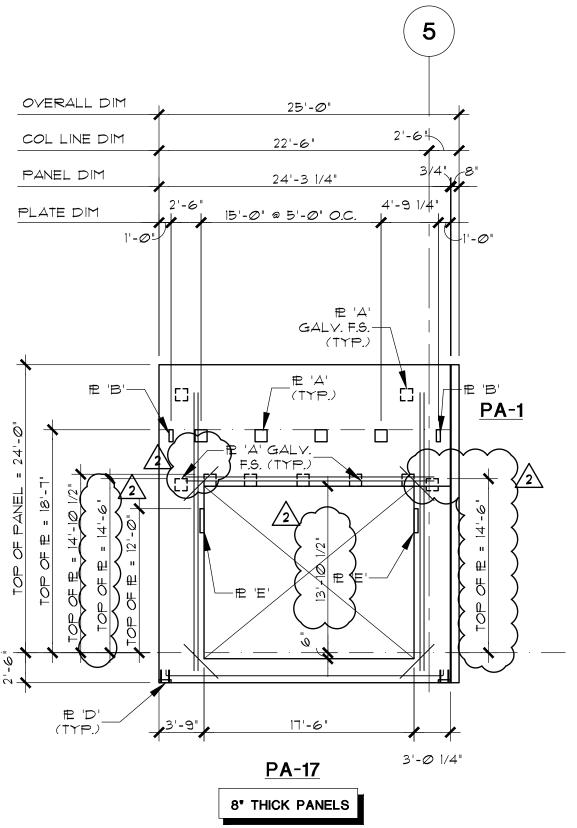
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CANOPY FRAMING PLAN

S2.4 2181072



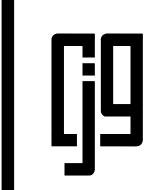




BUILDING A PANEL ELEVATIONS SCALE: 1/8"=1'-0"

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COORDINATE EMBED PLATE LOCATIONS AND CANOPY MEMBERS WITH ARCHITECT CANOPY LIGHTS TO CLEAR STRUCTURE

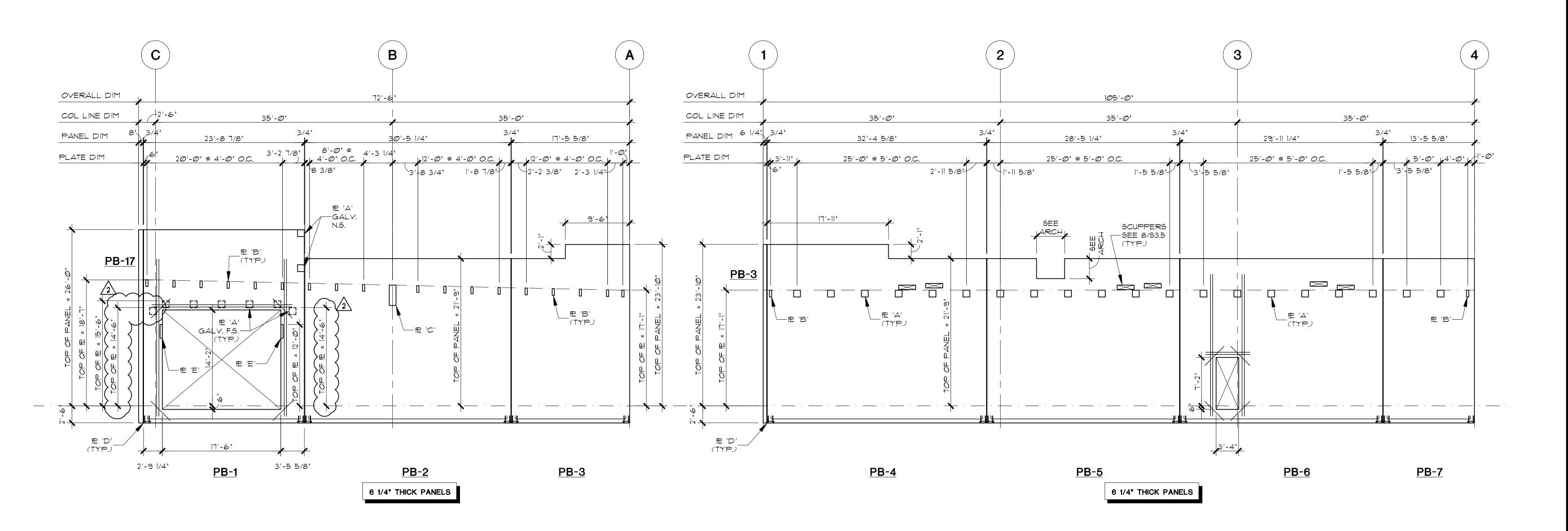
COORDINATE ALL OPENING, SIZES

& LOCATIONS PRIOR TO POURING

PANELS. SEE ARCH DRAWINGS FOR REVEALS, CHAMFERS, ETC.

> **BUILDING A** PANEL ELEVATIONS

S3.2

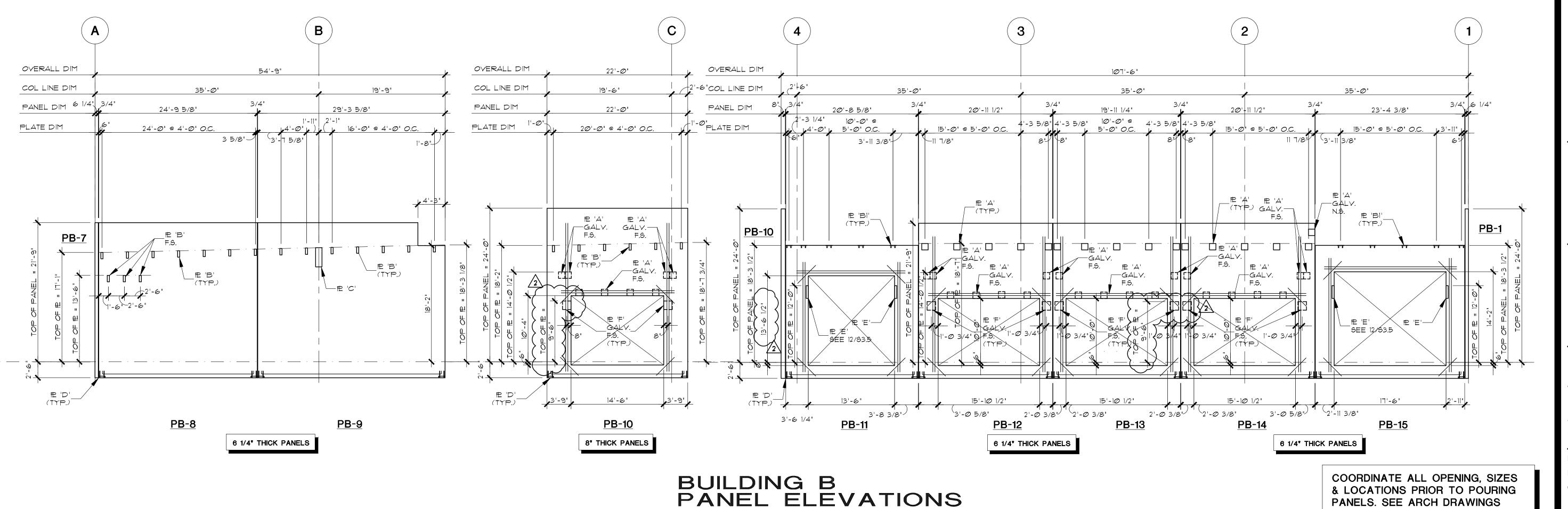


BUILDING B PANEL ELEVATIONS SCALE: 1/8"=1'-0"

COORDINATE EMBED PLATE LOCATIONS AND CANOPY MEMBERS WITH ARCHITECT CANOPY LIGHTS TO CLEAR STRUCTURE

& LOCATIONS PRIOR TO POURING

PANELS. SEE ARCH DRAWINGS FOR REVEALS, CHAMFERS, ETC.



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

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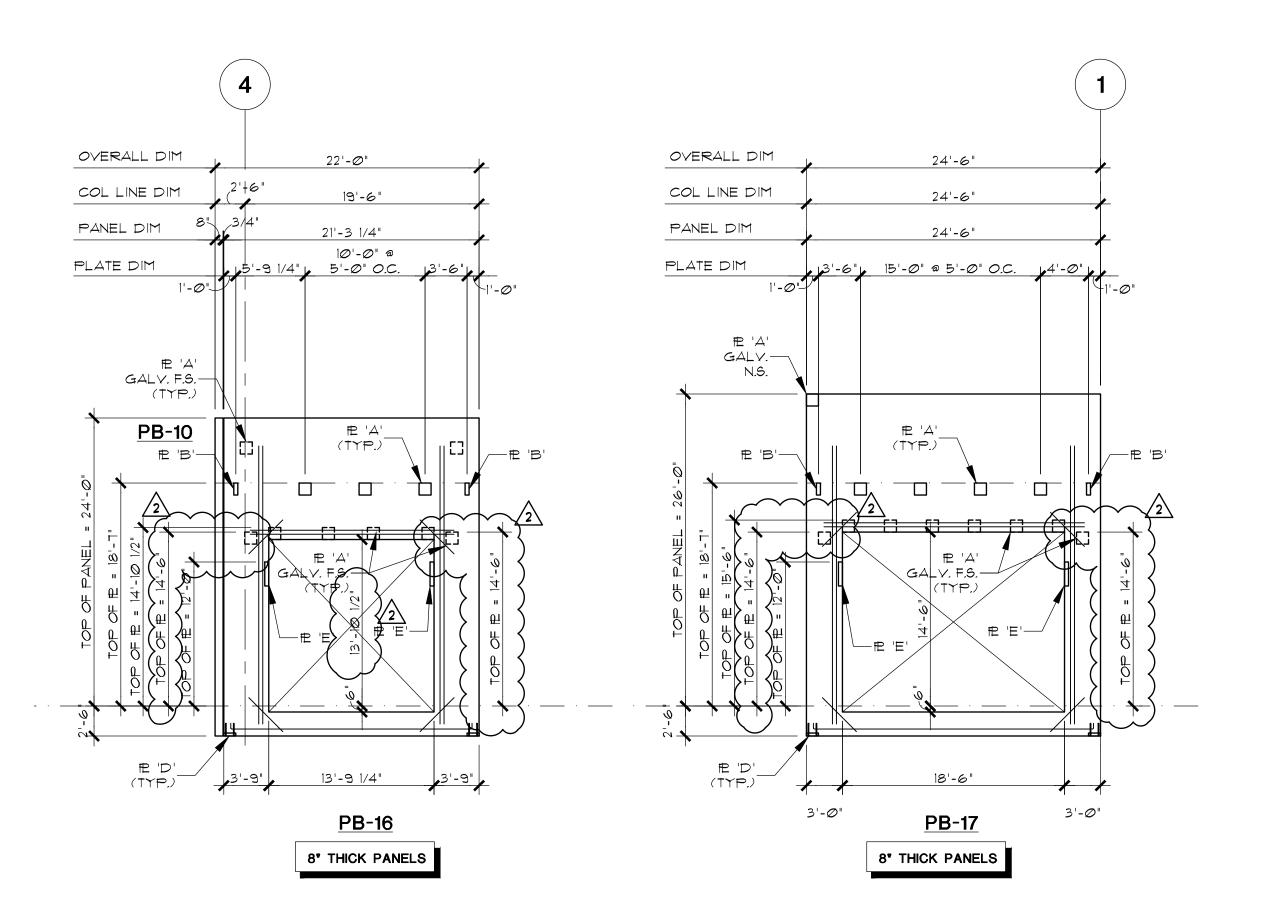
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Checked **BUILDING B** PANEL ELEVATIONS

S3.3



BUILDING B PANEL ELEVATIONS SCALE: 1/8"=1'-0"

COORDINATE EMBED PLATE LOCATIONS AND CANOPY MEMBERS WITH ARCHITECT

CANOPY LIGHTS TO CLEAR STRUCTURE

COORDINATE ALL OPENING, SIZES & LOCATIONS PRIOR TO POURING PANELS. SEE ARCH DRAWINGS FOR REVEALS, CHAMFERS, ETC.

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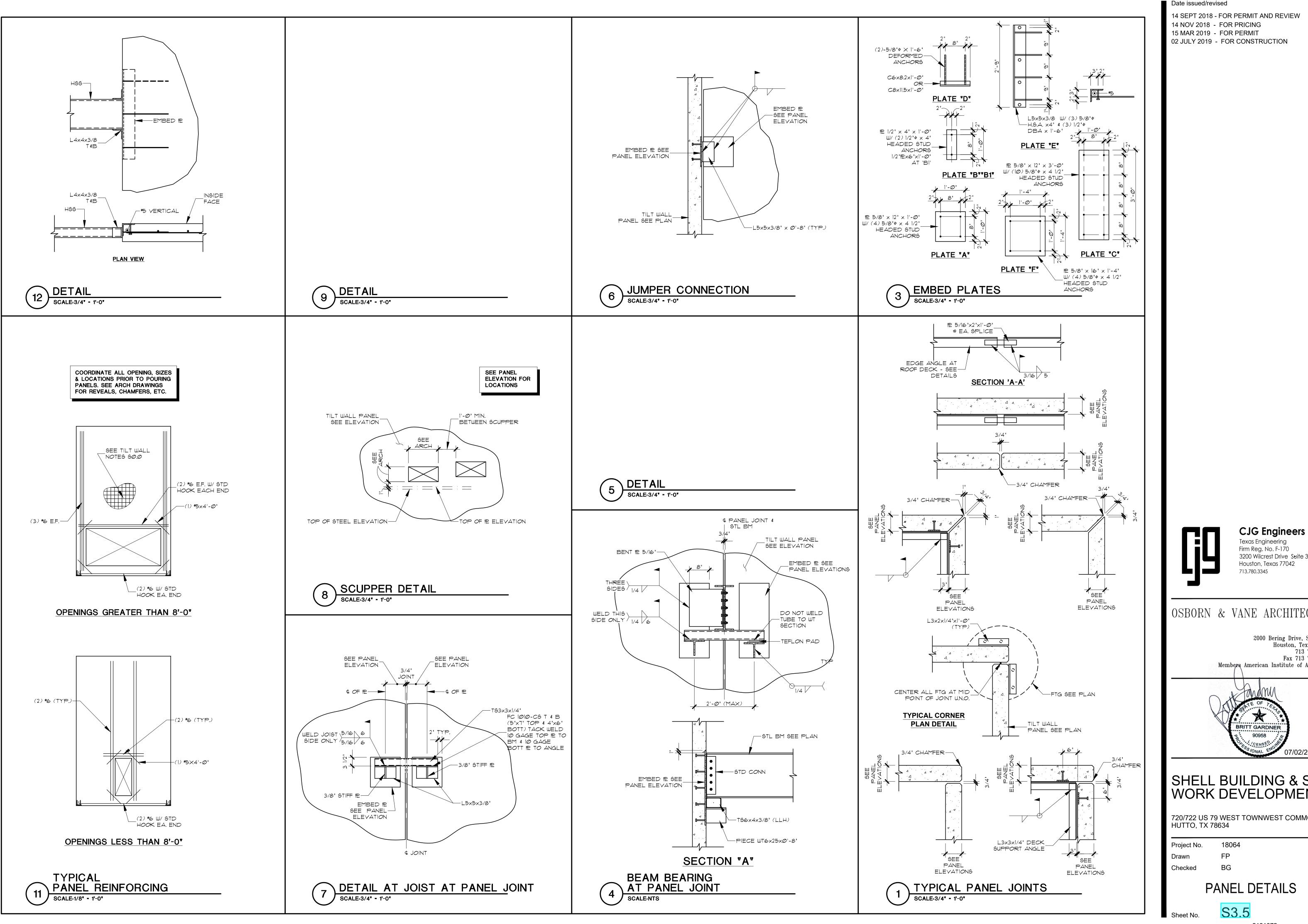
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BUILDING B PANEL ELEVATIONS

S3.4



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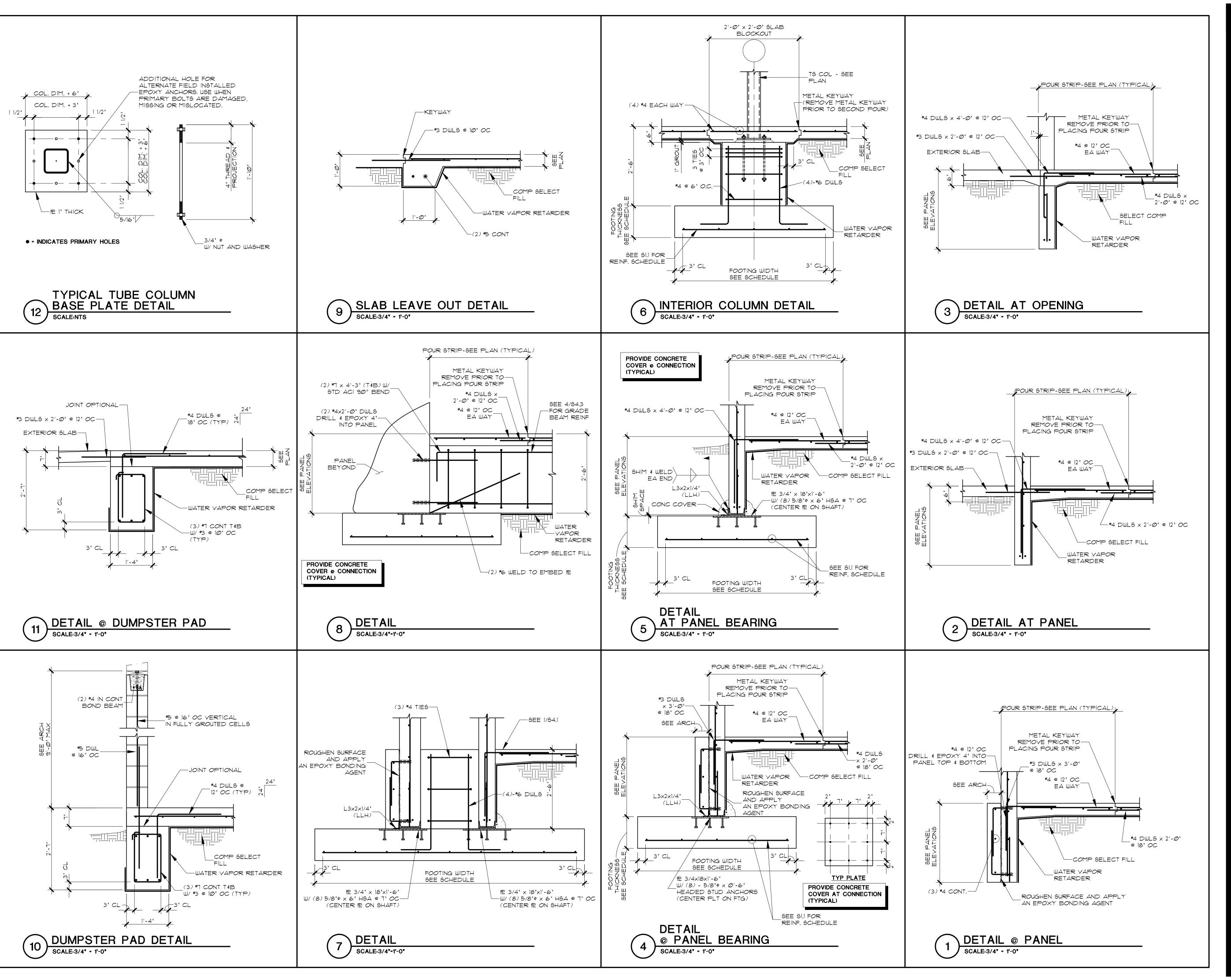
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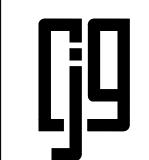
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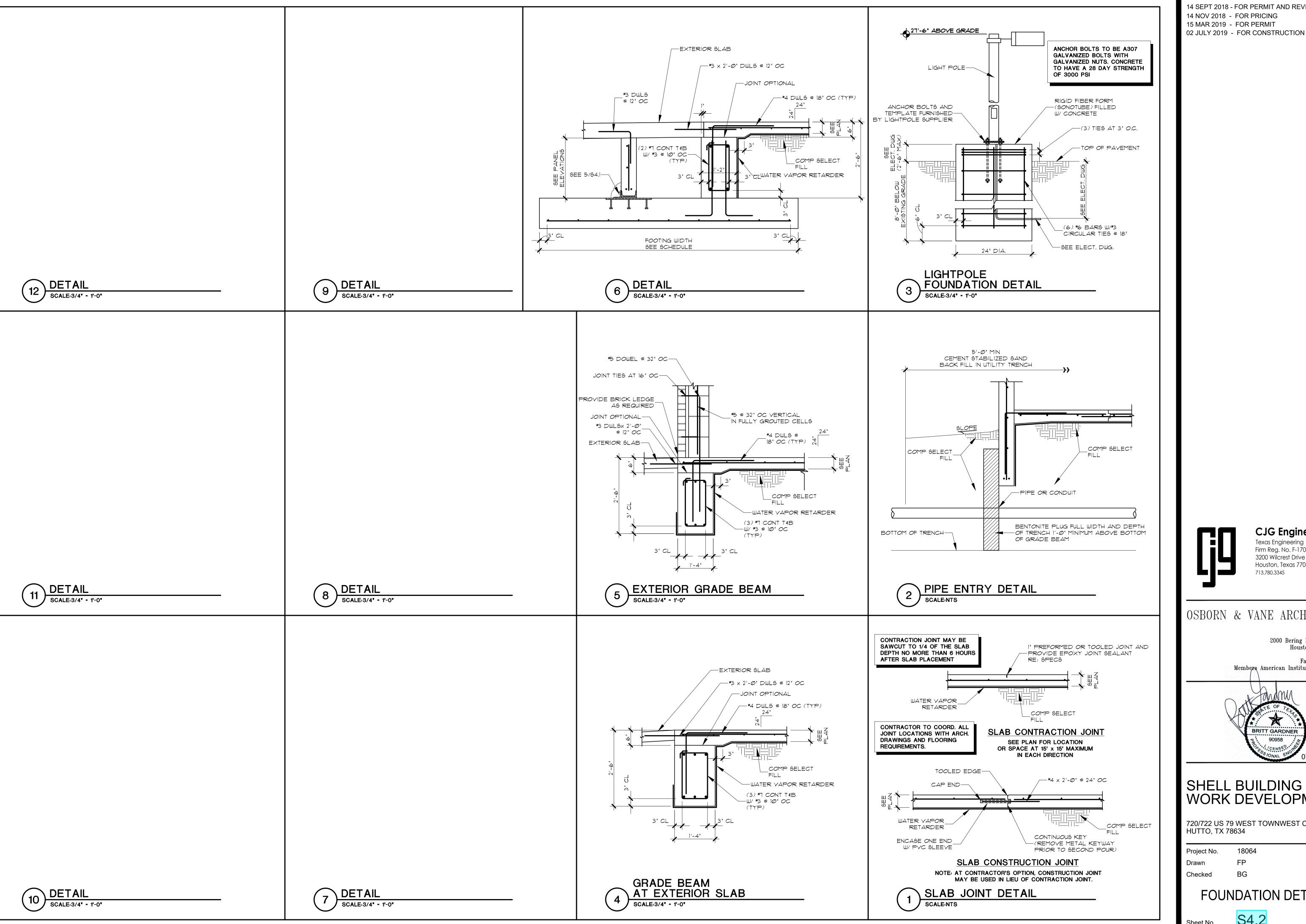
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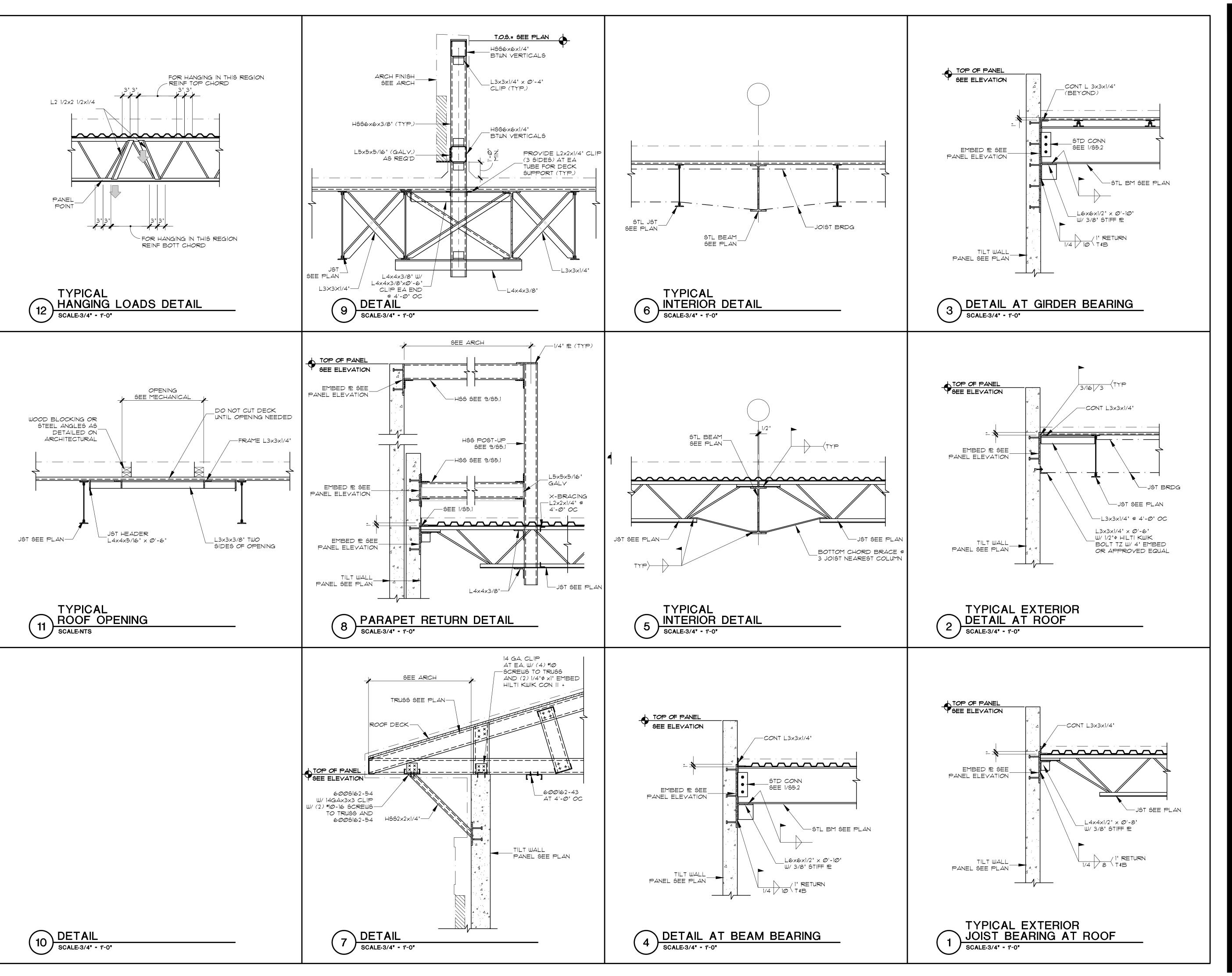
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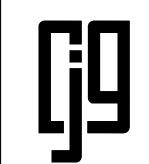
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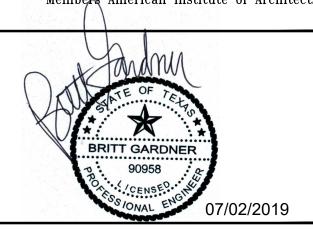
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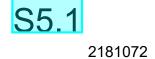
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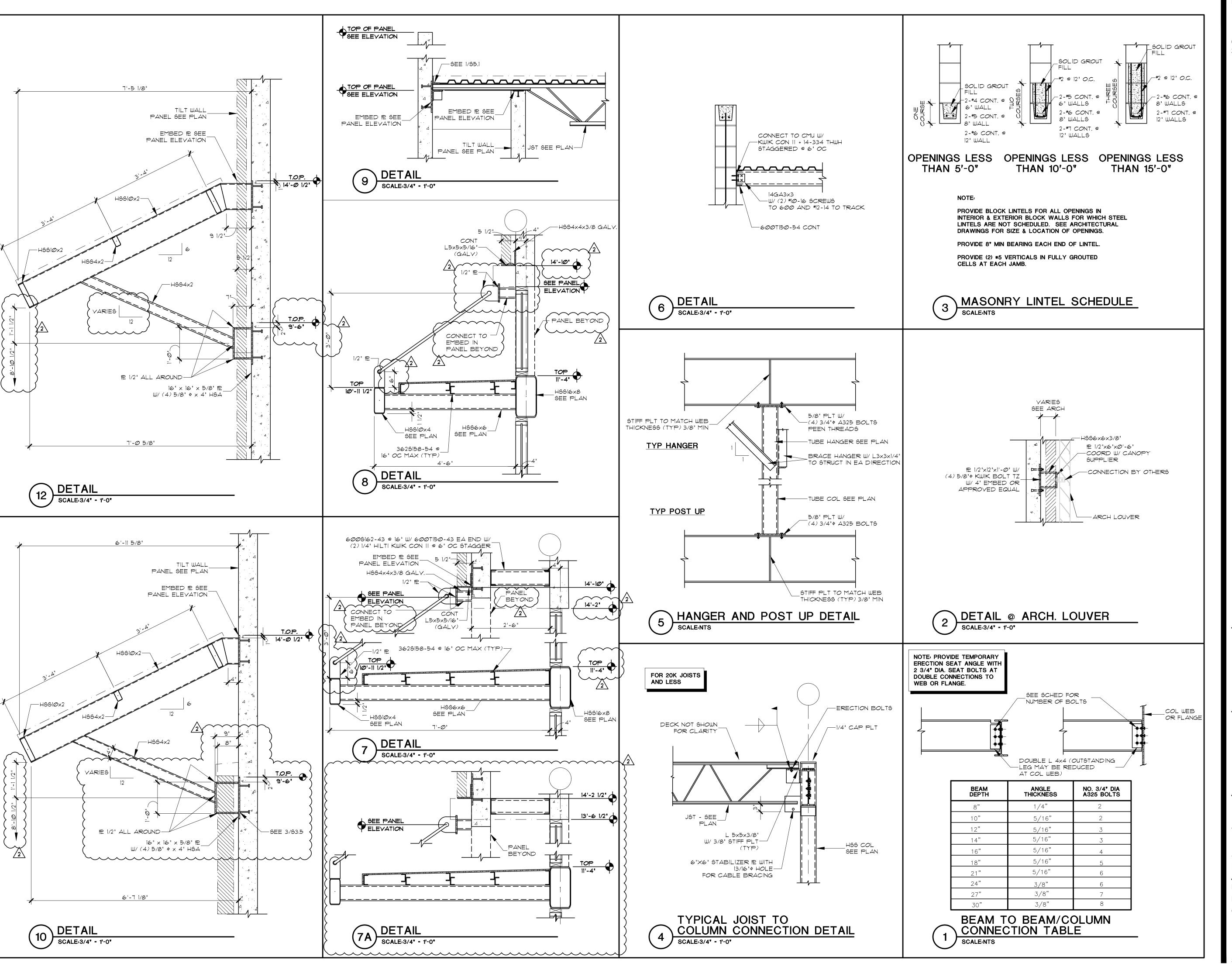
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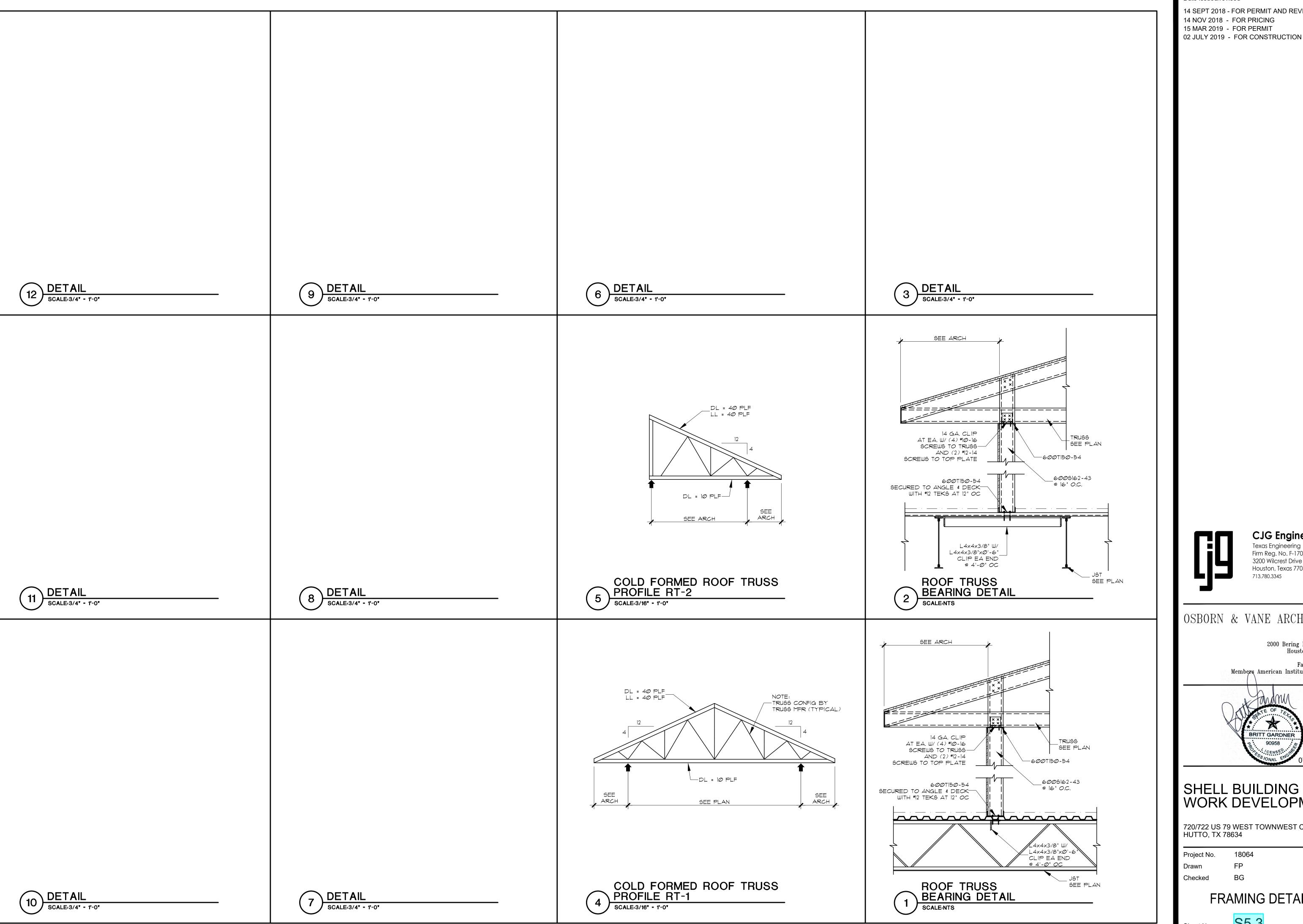
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