



Design Review Board

Staff Report

CASE NUMBER: DR14-035 (PLN2014-00541)
LOCATION/ADDRESS: 324 South Alma School Road (North of the northwest corner of Alma School and Broadway Roads)
REQUEST: Approval of a 15,332 sq. ft. City of Mesa Fire Station 203
COUNCIL DISTRICT: District 3
OWNER: City of Mesa
APPLICANT: Kurt Krause, Project Manager, City of Mesa Engineering
ARCHITECT: Gerrald Adams, LEED AP, Perlman Architects
STAFF PLANNER: Wahid Alam, AICP

HISTORY/RELATED CASES

March 21, 1959 Annexed into the City, subsequently zoned LI (Ord. 366)

SITE DATA

PARCEL NO.: 134-31-004C, -007C, -002Q, -002R
PARCEL SIZE: 3.47 ± acres (Fire Station site only 1.63 ± acres)
EXISTING ZONING: LI (Light Industrial) District
GENERAL PLAN DESIGNATION: GI (General Industrial)
CURRENT LAND USE: Vacant (formerly Rubio Auto Sales)
PARKING REQUIRED: 16 spaces
PARKING PROVIDED: 26 spaces (25 STD + 1 HC)
BUILDING SQUARE FOOTAGE (GFA): 12, 465 sq. ft. (Total foot print 15,332 sq. ft.)
LOT COVERAGE: 21.6%
LANDSCAPE AREA: 19,921 sq. ft.
LANDSCAPE COVERAGE: 27%

SITE CONTEXT

NORTH: Vacant – zoned LI PAD
EAST: (across Alma School Road) Auto related uses – zoned LI & GI
SOUTH: Auto related uses – zoned LI
WEST: Auto related uses - zoned LI

PROJECT DESCRIPTION

The City of Mesa recently purchased 1.63 acres of land for proposed Fire Station No. 203, located at 324 South Alma School Road, which is north of Broadway Road on the west side of Alma School Road. The Fire Station will occupy only 1.63 acres of a of 3.47 acre parcel. The property is currently zoned LI for limited industrial uses.

The fire station is proposed to function as a neighborhood station to serve the area residents. The neighborhood station will house up to 10 personnel with 24 hour operations, consistent with other fire stations. The floor plan of the proposed fire station is comprised of 3 apparatus bays, dorms, kitchen, dayroom, dining, restrooms, support areas, job/task conditioning room, community/training room, medical storage, and a lobby. The building is situated on the site in an

orientation that best utilizes the site area and allows for good apparatus circulation and, most importantly, apparatus response. However, the solar orientation is somewhat compromised. To combat that, the design team is proposing solar controls on the east and west sides of the building while allowing the light in on the north side. The wall types also help alleviate any heat gain issues caused by the siting. The building is proposed to be a combination of CMU block veneer and metal-clad siding (cor-ten and pre-finished) over insulated concrete forms (ICF) and exposed concrete masonry units (CMU).

Building Area/ Height	Parking Req'd / Prov'd	Building Setbacks Req'd/Prov'd	Miscellaneous for Subject Site
12, 465 sq. ft. / 28' top of parapet	Fire Station: 1 space per bed, plus 1 space per 75 square feet for community room= 16 spaces required/ 26 spaces provided	Alma School 15'/ 20' North: 0'/5' South: 0'/7' 8" West: 0'/21' 2"	Alternative Landscape Plan

The landscape plan submitted conforms to Alternative Landscape Plan Principles per current zoning code Section 11-33-7. The applicant complies with six of the 11 design principles identified in the current zoning code. The Alternative Landscape Plan addresses issues related to the extended visibility and clearance requirements for Fire Trucks and the Overhead Utility Line Easement. Staff is supportive of the Alternative Landscape Plan submitted.

The fire station and site development will be constructed in one phase.

BUILDING COLORS/MATERIALS

- Roof: Atas, Standing Seam Metal Roof – Color: 24 Antique Patina
- Masonry: Superlite, Trendstone (Ground Face) – Color: Rutherford & Superlite, Trendstone (Ground Face) – Color: Opal
- Door & Windows: Hollow metal, Dunn Edwards, DE6376 looking Glass
Exposed Steel, Dunn Edwards, Custom Match to 24 Antique Patina (Metal Roof)
- Wall Panel: Atas, Ribbed Metal, Belvedere Rib (Horizontal Rib) – Color: 70 Clear Pittsburgh Steel, Cor-Ten, Running Bond (60x12) – Color: Natural Rust
- Screen Walls: Parking screen walls and perimeter screen walls, including solid waste gate design, were not submitted at the time of writing this staff report

STAFF ANALYSIS

CONCERN:

Staff does not have any concerns with the proposed building design and thinks that the proposed contemporary architecture will establish a unique character that will inspire others to invest in the area.

CONCLUSION:

The design team has done an excellent job with the architecture of the project; therefore staff recommends approval of case DR14-035 with the following conditions.

CONDITIONS OF APPROVAL:

1. Compliance with the development as described in the Design Review Board staff report and as shown on the site plan, landscape plan, floor plans and exterior elevations.
2. Compliance with all City development codes and regulations.
3. Compliance with all requirements of the Development Services, Engineering, Transportation, and Solid Waste Departments.
4. All backflow preventers 2" or larger shall be screened with landscape material located within a 6' radius of the backflow preventer. All backflow preventers less than 2" shall be placed in a wire mesh basket *and painted green. (The City of Mesa has requested the change to green, to discourage theft.)*
5. Fire risers, building downspouts and roof access ladders are to be located within the building.
6. Revise Plans to show parking screen walls, 6-foot tall perimeter walls and the solid waste gate design to match the building architecture in material, color and texture; submit to Planning for staff approval prior to building permit submittal.
7. Roof and ground mounted mechanical equipment shall be fully screened per Section 11-30-9 of current Mesa Zoning Code.
8. Provide one set of 11"x17" size color elevations, site plan, landscaping plans showing compliance with conditions of approval for this case to the Planning prior to submitting for building permit application.

Project: Fire Station No. 203

Location: Proposed Fire Station No. 203 is to be located at 324 South Alma School Road, which is approximately 300 Feet North of Broadway Road on the west side of Alma School Road in Mesa, Arizona. The project will occupy the previously location of Rubio Auto Sales. The city purchased the property in September of 2014 for this use. The project site is roughly 70,937 square feet (1.63 Acres) The site is currently zoned as a LI (light Industrial) and can be used for a Fire Station per City Zoning. This results in a building setback of 20'-0" along the Front or Alma School frontage and 0'-0" to the rear and sides yards.

Considerations: The building is situated on the site in an orientation that best utilizes the site area and allows for good apparatus circulation and most importantly the apparatus response. However, solar orientation is somewhat compromised. To combat that, the design team is proposing solar controls on the east and west sides of the building while allowing the light in on the north side. The wall types also help alleviate any heat gain issues caused by the sitting. The building is proposed to be a combination of CMU block veneer and metal-clad siding (cor-ten and pre-finished) over insulated concrete forms (ICF) and exposed concrete masonry units (CMU).

Architectural Style: The proposed design is a simplified desert contemporary approach. The choice of materials and forms are influenced by the materials and colors of the Desert environment we live, work and play. Large butterfly roof forms are used to protect the windows and walls of the living quarters and public space. The Butterfly roof form is used to draw attention to the main entry and as a means of way finding for the public entries to the fire station and the community /training room. These areas are also clad in two types of metal siding; and horizontal louver sun screens. These elements coupled with large standing seam roof planes and the horizontal solar louvers create an interesting layering on the elevations. To contrast that, the apparatus bays are a simplified form that is related to the rest of the building through the use of materials and colors. The roof materials are a combination of energy efficient sloped standing seam and flat roof areas that conceal the HVAC and exhaust equipment. The color palette was selected to be contextually appropriate and to maintain relevance developments surrounding the fire station and to reinforce the relationship of the desert environment.

Sustainability: Although the project is not pursuing LEED certification, the City and the design team are incorporating many "green" concepts into the design. The following are just a sampling of the LEED principles that will be considered for this project. (1) Solar controls and material selections of the building. (2) Water efficiency: The use of water efficient landscape material and irrigation and low use plumbing fixtures will be specified. (3) energy & atmosphere: The design will maximize the optimization of energy performance through the selection of equipment and proper specifications. (4) Materials & resources: Specifications will require the minimization of construction waste materials, the use of regional materials, and the use of recycled content and the use rapidly renewable materials, where appropriate. (5) Indoor environmental quality: This will create for a more comfortable indoor spaces. (6) The use of low-emitting materials reducing volatile organic compounds(VOC's) and refrigerants that have been identified as negative to the environment. (7) Increased system controllability of lighting and thermal comfort systems as well as introduction of day lighting and views to the interior spaces. The design team will continue to incorporate reasonable sustainability concepts into the development of this project and has LEED Accredited Professionals working on the design team to ensure the details of these concepts become a reality.

- Operation:** The proposed use of the building will be a fire station to serve the area residents. The operation of this station is considered a “neighborhood station” and will house up to 10 emergency personnel. The hours of operation will be a 24 hour facility, consistent with other Fire Stations. The floor plan of the proposed fire station is comprised of 3 apparatus bays, dorms, kitchen, dayroom, dining, restrooms, support areas, job/task conditioning room, community/training room, medical storage and a lobby.
- Infrastructure:** All utilities to the subject site are adjacent or within the public utility easements along the property lines. The water efficient Irrigation will be designed to tie into the City’s water system using a separate water meter. The balance of the utilities will be extended to the building as required to meet the building needs. Emergency “Beacon” egress signals would be added to both sides of Alma School as approved by city transportation department for safe egress of the fire apparatus and safety of the public during Fire Department response.
- Landscape:** Landscape Plan was prepared in accordance with section 11-33-7 of Mesa Zoning Ordinance with the following principles and design criteria.” The following (6) Design Principles have been implemented: The use of innovative irrigation techniques (flow sensors, computer-monitored controller) and a unique planting scheme will allow for an Alternative Landscape Plan. The use of plant material native to the Sonoran Desert including Ocotillo, Blackfoot Daisy, and Penstemon allow for an Alternative Landscape Plan. The scheme includes plants of multiple forms and sizes as well as plants with various flower colors and flowering seasons creating a rich biodiversity of plant material on the site. A water efficient irrigation system and a low-water use planting palette will be used. More than 25% of all trees will be larger than 36” Box exceeding City of Mesa’s minimum planting requirements. Low maintenance plants that are known for their sustainability in an urban environment will be used. The Overhead Utility Line Easement design is based on SRP’s approved groundcover list, the presence of overhead utility lines prevents the use of most species of shrubs whose mature height is above 2’-0” along the utility lines. In addition, the presence of the utility lines reduces the availability of planting space that can be dedicated to the planting of trees.
- Lighting:** The exterior lighting design utilizes the use of all LED fixtures and current lighting design principals. The selected fixtures are a stylish, fully integrated LED solution for exterior applications. They features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance. With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the selected fixtures are a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.
- Phasing:** The fire station and site development will be constructed in one phase.



LOGAN SIMPSON
DESIGN INC.

September 29, 2014

To Whom It May Concern,

Based on the location (above ground utilities) of the site as well as the functional fire department program requirements, the City of Mesa's standard planting standards for Mesa Fire Station 203 cannot be met. In order to satisfy the City of Mesa's requirements, an Alternative Landscape Plan is being proposed. Based on 11-33-7 of Mesa Zoning Ordinance "an applicant who can demonstrate that the intent of this Chapter can be exceeded, in whole or in part, may submit an Alternative Landscape Plan prepared in accordance with the following principles and design criteria." The following (6) Design Principles have been implemented:

1. **Innovative Design:** The use of innovative irrigation techniques (flow sensors, computer-monitored controller) and a unique planting scheme will allow for an Alternative Landscape Plan.
2. **Native Vegetation:** The use of plant material native to the Sonoran Desert including Ocotillo, Blackfoot Daisy, and Penstemon allow for an Alternative Landscape Plan.
3. **Plant Variety:** The scheme includes plants of multiple forms and sizes as well as plants with various flower colors and flowering seasons creating a rich biodiversity of plant material on the site.
4. **Water Efficiency:** A water efficient irrigation system and a low-water use planting palette will be used.
5. **Tree Substitution:** More than 25% of all trees will be larger than 36" Box exceeding City of Mesa's minimum planting requirements.
6. **Plant Viability and Longevity:** Low maintenance plants that are known for their sustainability in an urban environment will be used.
7. **Overhead Utility Line Easement:** Based on SRP's approved groundcover list, the presence of overhead utility lines prevents the use of most species of shrubs whose mature height is above 2'-0" along the utility lines. In addition, the presence of the utility lines reduces the availability of planting space that can be dedicated to the planting of trees.

Also, with the "Alternative Landscape Plan", the planting scheme will substitute a percentage of trees with Ocotillos, reduce the minimum percentage of vegetative ground coverage required, reduce the width of the foundation base, and reduce the number of plants required on landscaped islands.

Please contact me if you wish to discuss this Alternative Landscape Plan.

Respectfully,

Jerry Moar, ASLA, LEED AP BD +C
Senior Project Manager



Material: Standing Seam Metal Roof
 Pattern: 1" Battens @ 12-5/8" O.C.
 Manufacturer: Atas
 Color: 24 Antique Patina



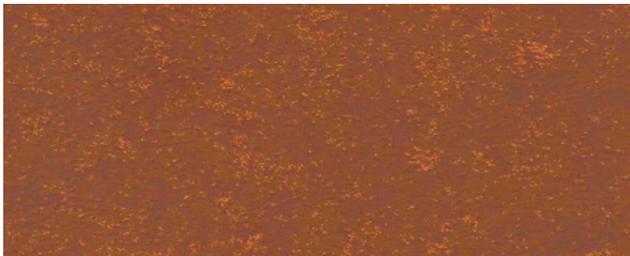
Location: Storefront Windows
 Material: Aluminum
 Color: Clear Anodized



Location: Hollow Metal Doors / Bollards
 Material: Paint
 Manufacturer: Dunn Edwards
 Color: DE6376 Looking Glass



Location: Exposed Steel
 Material: Paint
 Manufacturer: Dunn Edwards
 Color: Custom Match to 24 Antique Patina (Metal Roof)



Material: Cor-Ten Metal Panels
 Pattern: Running Bond (60x12)
 Manufacturer: Pittsburgh Steel
 Color: Natural Rust



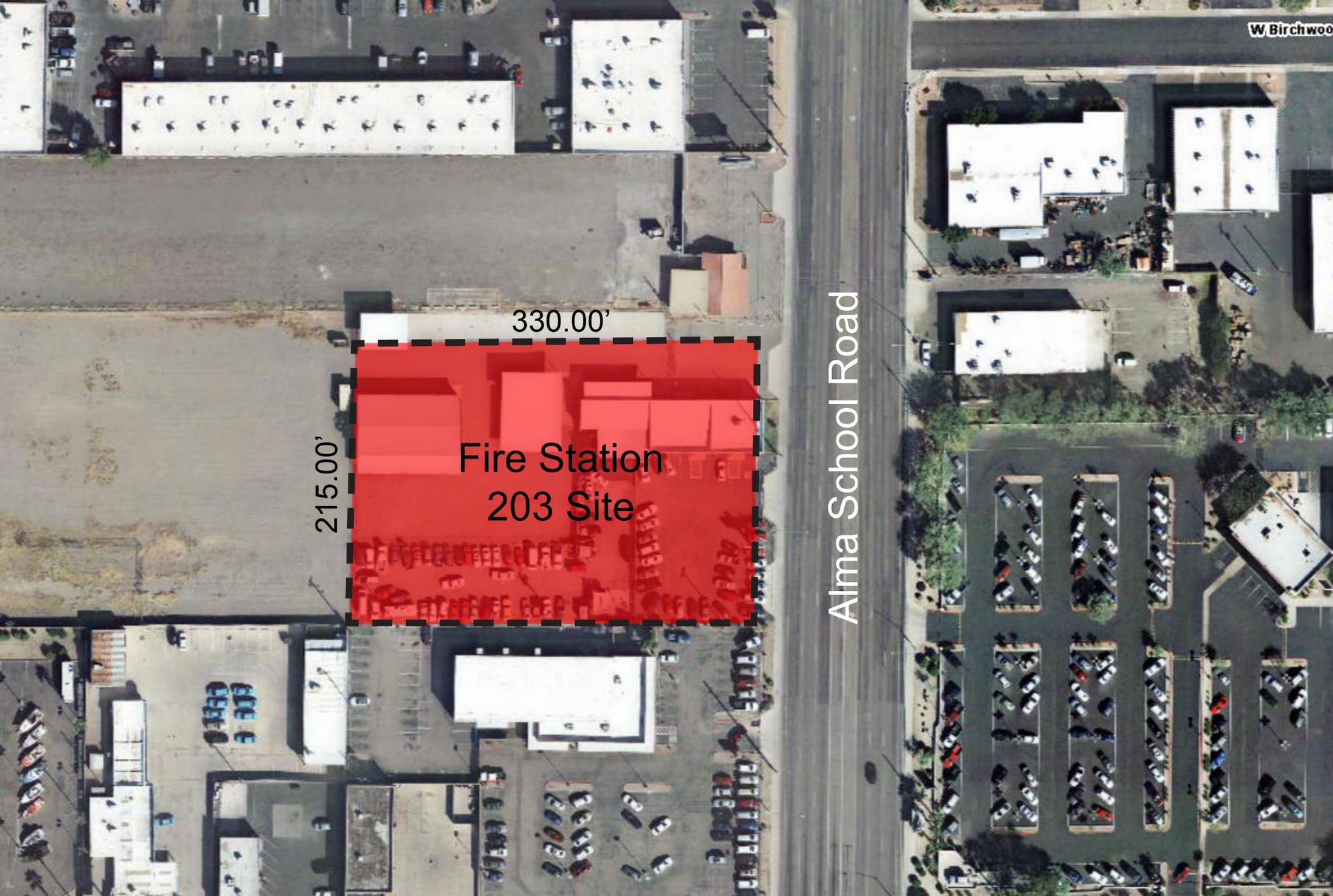
Material: Ribbed Metal Wall Panel
 Manufacturer: Atas
 Type: Belvedere Rib (Horizontal Rib)
 Color: 70 Clear



Material: Masonry
 Manufacturer: Superlite Block
 Block Type: Trendstone (Ground Face)
 Color: Rutherford



Material: Masonry
 Manufacturer: Superlite Block
 Block Type: Trendstone (Ground Face)
 Color: Opal



W Birchwood

330.00'

215.00'

Fire Station
203 Site

Alma School Road



City of Mesa Fire Station 203
324 S. Alma School Road





NORTHEAST PERSPECTIVE



NORTHWEST PERSPECTIVE



SOUTHWEST PERSPECTIVE



SOUTHEAST PERSPECTIVE

MATERIAL LEGEND

	MATERIAL PATTERN MANUFACTURER BLOCK TYPE COLOR	8x8x16 MASONRY RUNNING BOND SUPERLITE BLOCK TRENDSTONE (GROUND FACE) OPAL
	MATERIAL PATTERN MANUFACTURER BLOCK TYPE COLOR	8'H MASONRY VENEER RUNNING BOND SUPERLITE BLOCK TRENDSTONE (GROUND FACE) RUTHERFORD
	MATERIAL PATTERN MANUFACTURER COLOR	COR-TEN METAL PANELS RUNNING BOND (60x12) PITTSBURGH STEEL NATURAL RUST
	MATERIAL PATTERN MANUFACTURER TYPE COLOR	RIBBED METAL WALL PANELS HORIZONTAL RIB ATAS BELVEDERE RIB 70 CLEAR
	MATERIAL PATTERN MANUFACTURER TYPE COLOR	STANDING SEAM ROOF 1" BATTENS at 12-5/8" O.C. ATAS PC SNAP ON SYSTEM 24 ANTIQUE PATINA
	LOCATIONS MATERIAL COLOR/FINISH	STOREFRONT WINDOWS ALUMINUM CLEAR ANODIZED
	LOCATIONS MATERIAL MANUFACTURER COLOR	EXPOSED STEEL PAINT DUNN EDWARDS CUSTOM MATCH: 24 ANTIQUE PATINA
	LOCATIONS MATERIAL MANUFACTURER COLOR	HOLLOW METAL DOORS/ BOLLARDS PAINT DUNN EDWARDS DE6376 LOOKING GLASS



DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

F185 AC
PROJ. NO. C10127

Perlman
Architects of Arizona
4808 N. 24th Street Ste. 100 Phoenix, Arizona 85016
480.951.5900 480.951.3045 f
perlmanaz.com

CITY OF MESA
ENGINEERING DEPARTMENT

MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

RENDERINGS

DRAWING

SHEET
OF

CATALOG NUMBER:

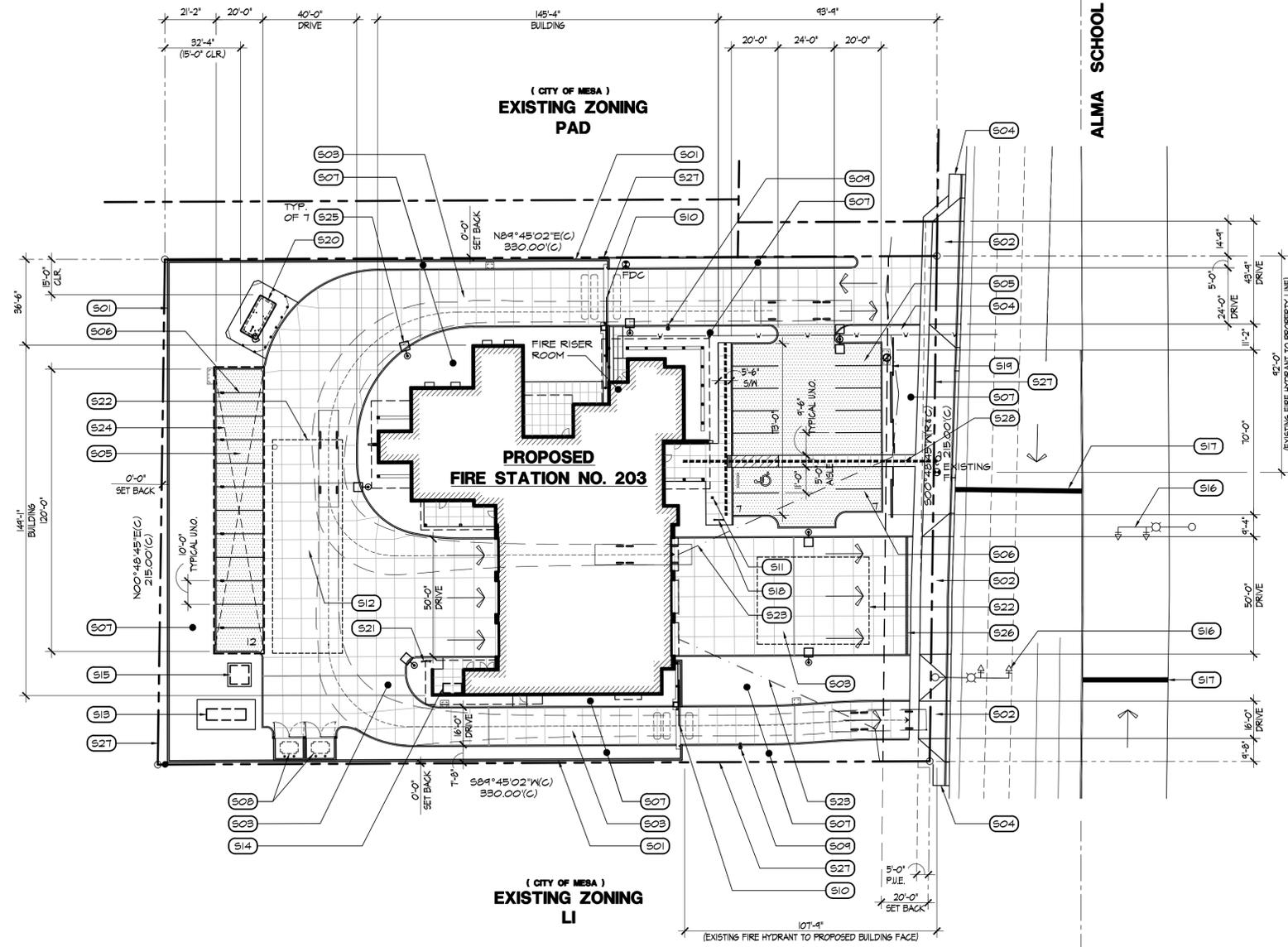
UNIVERSITY DRIVE

ALMA SCHOOL ROAD

DOBSON ROAD

(CITY OF MESA) EXISTING ZONING LI

(CITY OF MESA) EXISTING ZONING GI / LI



PROJECT INFORMATION

BUILDING USE AND OCCUPANCY CLASSIFICATION:
 ASSEMBLY, A-3 COMMUNITY / TRAINING ROOM
 BUSINESS, B OFFICE
 RESIDENTIAL, R-2 CONGREGATE LIVING AND DORMITORIES
 STORAGE, S-1 MOTOR VEHICLE GARAGE

OCCUPANTS PER CLASSIFICATION:
 ASSEMBLY, A-3 74
 BUSINESS, B 18
 RESIDENTIAL, R-2 7 (BASED ON 1 OCCUPANT PER BED)
 STORAGE, S-1 29
 TOTAL = 122

PROPOSED BUILDING:
 GROSS BUILDING AREA (GBA): 12,465 SQ. FT.
 BUILDING COVERED AREAS / PROJECTIONS: 2,867 SQ. FT.
 TOTAL BUILDING FOOTPRINT: 15,332 SQ. FT.

CONSTRUCTION TYPE: V-B

OCCUPANCY SEPERATION: NON-SEPERATED OCCUPANCIES

FIRE PARTITIONS SEPARATING SLEEPING UNITS, GROUP R-2: ONE HOUR RATED WALLS TO MEET IBC TABLE 7201.1 (2), ITEM 14-1.3

CORRIDOR FIRE-RESISTANCE RATING: FIRE-RESISTIVE RATING IS NOT REQUIRED FOR CORRIDORS WITH IN SLEEPING UNIT IN AN OCCUPANCY IN GROUP R.

AUTOMATIC SPRINKLER SYSTEM: YES

FIRE ALARM SYSTEM: YES

EMERGENCY LIGHTING: YES WITH STAND-BY GENERATOR

SITE GROSS / NET AREA: 1.63 ACRES +/-, 10,931 SQ. FT. +/-
LOT COVERAGE PERCENTAGE: 21.6%

PARKING SPACES: (MESA STANDARDS CHAPTER 32, TABLE II-32-3.A)
 1 SPACE PER BED, PLUS 1 SPACE PER 75 SQ. FT. FOR COMMUNITY ROOM.
PARKING SPACES REQUIRED = 16
PARKING SPACES PROVIDED = 25 + 1 ACCESSIBLE SPACE = 26 TOTAL

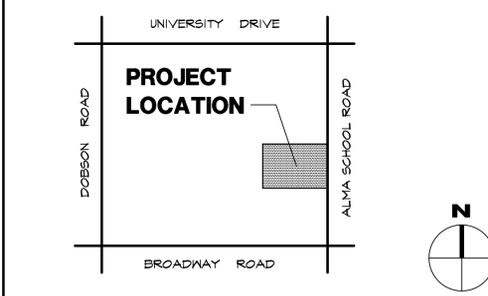
KEY NOTES

- | # | DESCRIPTION |
|-----|--|
| S01 | 6'-0" HIGH CMU WALL CONSTRUCTION. |
| S02 | CONCRETE DRIVEWAY ENTRANCE / EXIT. |
| S03 | CONCRETE PAVING. |
| S04 | CONCRETE SIDEWALK. |
| S05 | A/C PAVING OVER ABC. |
| S06 | 4" WIDE WHITE PAINTED PARKING STRIPE, TYPICAL. |
| S07 | LANDSCAPE AREA. |
| S08 | SINGLE-WIDE BIN ENCLOSURE (PER CITY OF MESA STANDARD DETAIL M62-2) WITH CMU WALLS AND SAFETY POSTS (PER CITY OF MESA STANDARD DETAIL M62-4) WITH STEEL FRAMED GATES. |
| S09 | DUAL-NECK SECURITY PEDESTAL WITH KNOX BOX HIGH AND CARD READER DEVICE LOW AND CRTA-COMM DEVICE. |
| S10 | 6'-0" HIGH STEEL ROLLING GATE WITH COMMERCIAL DUTY GATE OPERATOR WITH FREE LOOP / OBSTRUCTION LOOP AT PAVING. |
| S11 | 30'-0" HIGH FLAG POLE WITH LIGHTS. |
| S12 | 5'-0" WIDE WITH 4" WIDE WHITE PAINTED STRIPE ACCESSIBLE ROUTE. SLOPE TO BE MAX. 1:20 WITH A MAX. CROSS SLOPE OF 2%. |
| S13 | STAND-BY GENERATOR ON ELEVATED CONCRETE HOUSE KEEPING PAD. |
| S14 | PROPOSED LOCATION OF SERVICE ENTRY SECTION WITH CONCRETE PAD. |
| S15 | UTILITY COMPANY TRANSFORMER LOCATION WITH CONCRETE PAD. |
| S16 | TRAFFIC CONTROL LIGHT SIGNAL DEVICE. |
| S17 | PAINTED STRIPE FOR EMERGENCY TRAFFIC CONTROL ON STREET. |
| S18 | BIKE RACK. |
| S19 | 3'-6" HIGH PROPERTY SCREEN CMU WALL CONSTRUCTION. |
| S20 | ABOVE GROUND FUEL TANK WITH SECONDARY CONTAINMENT ON ELEVATED CONCRETE HOUSE KEEPING PAD WITH 4" DIA. x 4'-0" HIGH CONCRETE FILLED BOLLARD / VEHICLE PROTECTION AROUND TANK. |
| S21 | 2.5" STND. NTP TRUCK FILL STATION TIED INTO NON-METERED FIRE LINE. |
| S22 | UNDERGROUND STORM WATER COLLECTION / RETENTION SYSTEM VAULT. |
| S23 | TRAFFIC VISIBILITY TRIANGLE. |
| S24 | PRE-MANUFACTURED PARKING CANOPY LOCATION. |
| S25 | SITE LIGHTING POLE / FIXTURE ON 30" H. x 24" DIA. CONCRETE PEDISTAL. TOTAL HEIGHT OF 15'-0" ABOVE FINISHED GRADE. |
| S26 | SURFACE DRAIN FOR STORM WATER COLLECTION. |
| S27 | PROPERTY LINE. |
| S28 | DECORATIVE COLORED CONCRETE SIDEWALK TO PUBLIC WAY. |

LEGEND

- INDICATES ACCESSIBLE ROUTE. MAX SLOPE TO BE 1:20 WITH A MAX CROSS SLOPE TO BE 2%.
- ↑ DIRECTION OF TRAFFIC FLOW

VICINITY MAP



LEGAL DESCRIPTION

BEING A PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 20, TOWNSHIP 1 NORTH, RANGE 5 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 20, BEING A FOUND 3" BRASS CAP IN HANDHOLE, FROM WHICH THE SOUTH QUARTER CORNER OF SAID SECTION 20, BEING A FOUND BRASS CAP IN HANDHOLE BEARS SOUTH^{89°45'02"}WEST, FOR A MEASURED DISTANCE OF 2127.55 FEET;

THENCE NORTH^{00°48'45"}EAST, ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 20, FOR A DISTANCE OF 303.15 FEET;

THENCE SOUTH^{89°45'02"}WEST, FOR A DISTANCE OF 55.01 FEET, TO A POINT ON THE WEST RIGHT OF WAY LINE OF SOUTH ALMA SCHOOL ROAD AND THE POINT OF BEGINNING;

THENCE CONTINUING SOUTH^{89°45'02"}WEST, FOR A DISTANCE OF 330.00 FEET, TO A POINT ON A LINE THAT IS PARALLEL WITH AND 384.94 FEET WEST OF THE EAST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 20;

THENCE NORTH^{00°48'45"}EAST, ALONG SAID PARALLEL LINE, FOR A DISTANCE OF 215.00 FEET, TO A POINT ON A LINE THAT IS PARALLEL WITH AND 144.28 FEET SOUTH OF THE NORTH LINE OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SAID SECTION 20;

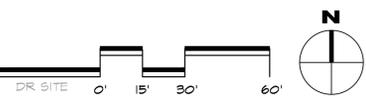
THENCE NORTH^{89°45'02"}EAST, ALONG SAID PARALLEL LINE, FOR A DISTANCE OF 330.00 FEET, TO A POINT ON THE WEST RIGHT OF WAY LINE OF SAID SOUTH ALMA SCHOOL ROAD;

THENCE SOUTH^{00°48'45"}WEST, ALONG SAID WEST RIGHT OF WAY LINE, FOR A DISTANCE OF 215.00 FEET, TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 10,931 SQUARE FEET, OR 1.63 ACRES, MORE OR LESS.

1 ARCHITECTURAL SITE PLAN

SCALE: 1" = 30'-0"



Perلمان
 Architects of Arizona
 4808 N. 24th Street, Ste 100 Phoenix, Arizona 85016
 480.951.5900 480.951.3045 f
 perlmanaz.com



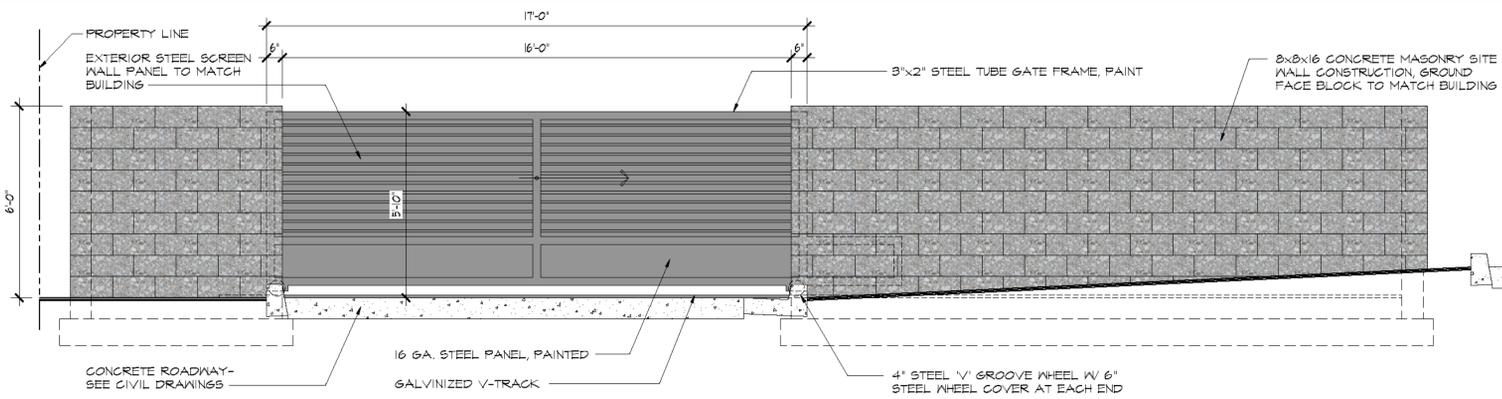
CITY OF MESA
 ENGINEERING DEPARTMENT
 MESA FIRE STATION NO. 203
 324 SOUTH ALMA SCHOOL ROAD

DRAWN BY: RAS
 PROJECT MANAGER: GA
 APPROVED BY: KWP

ARCHITECTURAL SITE PLAN
 A1.0

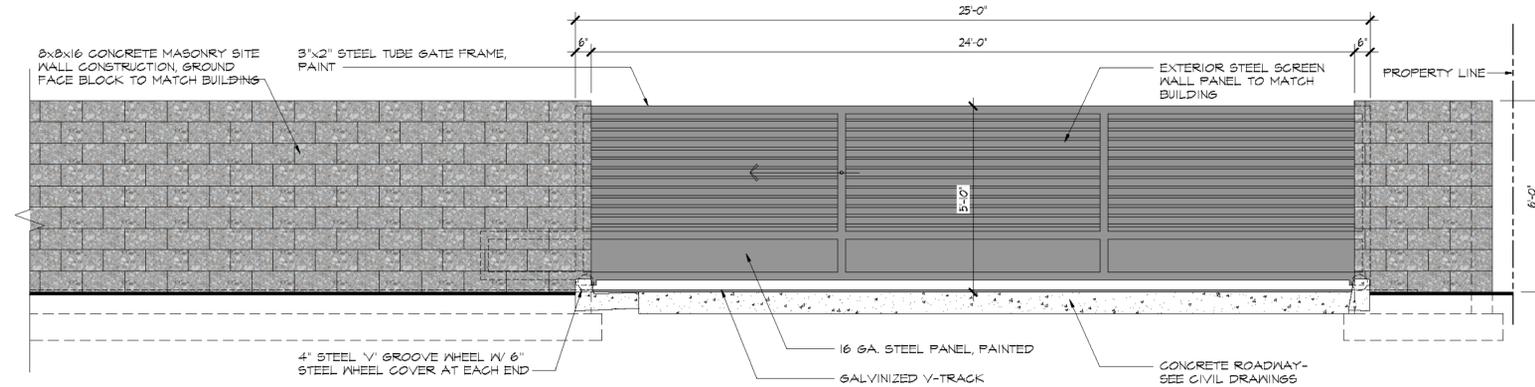
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 DR. NO. 2014-00541

SHEET OF CATALOG NUMBER:



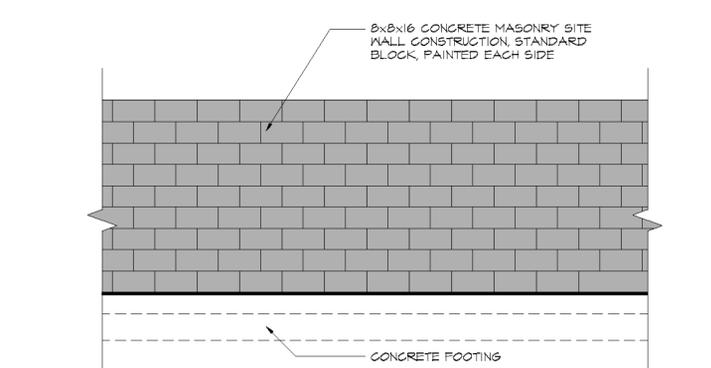
1 ROLLING GATE ELEVATION - SOUTH ELEVATION

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



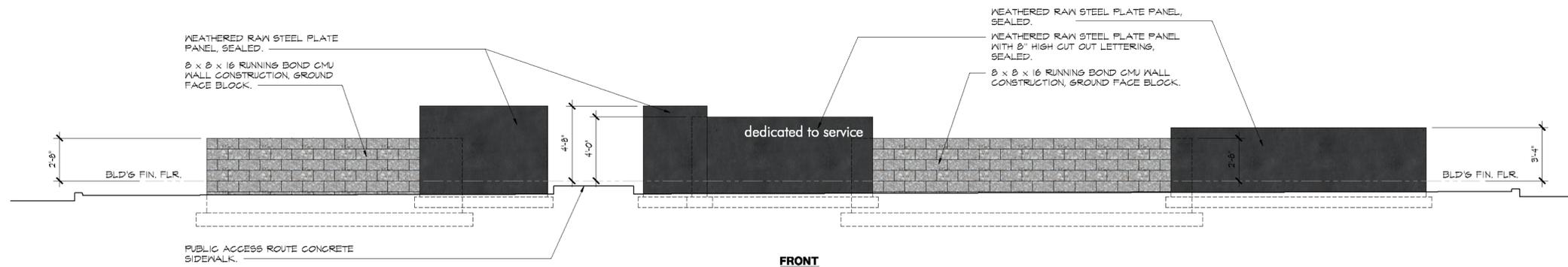
2 ROLLING GATE ELEVATION - NORTH ELEVATION

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



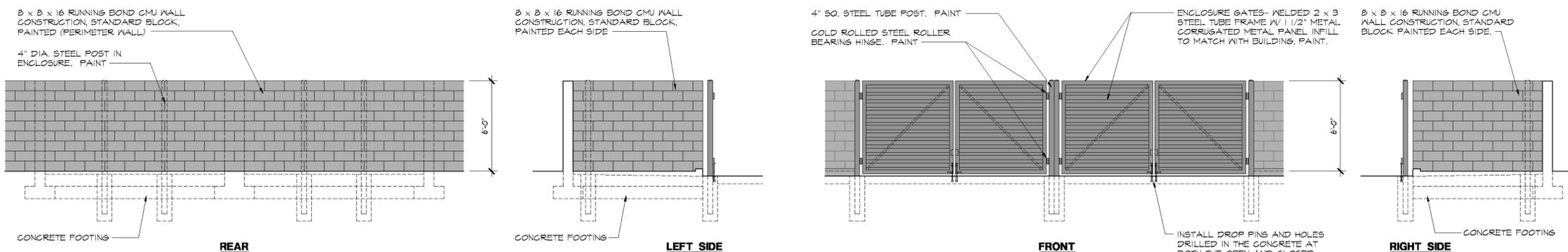
3 PERIMETER SITE WALL ELEVATION

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



4 PARKING LOT SCREEN WALL - ELEVATIONS

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



5 DBL. TRASH ENCLOSURE - ELEVATIONS

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

MATERIAL LEGEND

	MATERIAL PATTERN MANUFACTURER BLOCK TYPE COLOR	8x8x16 MASONRY RUNNING BOND SUPERLITE BLOCK TRENDSTONE (GROUND FACE) OPAL
	MATERIAL PATTERN MANUFACTURER BLOCK TYPE COLOR	8"H MASONRY VENEER RUNNING BOND SUPERLITE BLOCK TRENDSTONE (GROUND FACE) RUTHERFORD
	MATERIAL PATTERN MANUFACTURER COLOR	COR-TEN METAL PANELS RUNNING BOND (60x12) PITTSBURGH STEEL NATURAL RUST
	MATERIAL PATTERN MANUFACTURER TYPE COLOR	RIBBED METAL WALL PANELS HORIZONTAL RIB ATAS BELVEDERE RIB 70 CLEAR
	MATERIAL PATTERN MANUFACTURER TYPE COLOR	STANDING SEAM ROOF 1" BATTENS at 12-5/8" O.C. ATAS PC SNAP ON SYSTEM 24 ANTIQUE PATINA
	MATERIAL PATTERN MANUFACTURER TYPE COLOR	METAL ROOF (NOT VISIBLE)
	LOCATIONS MATERIAL COLOR/FINISH	STOREFRONT WINDOWS ALUMINUM CLEAR ANODIZED
	LOCATIONS MATERIAL MANUFACTURER COLOR	EXPOSED STEEL PAINT DUNN EDWARDS CUSTOM MATCH: 24 ANTIQUE PATINA
	LOCATIONS MATERIAL MANUFACTURER COLOR	HOLLOW METAL DOORS/ BOLLARDS PAINT DUNN EDWARDS DE6376 LOOKING GLASS



DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

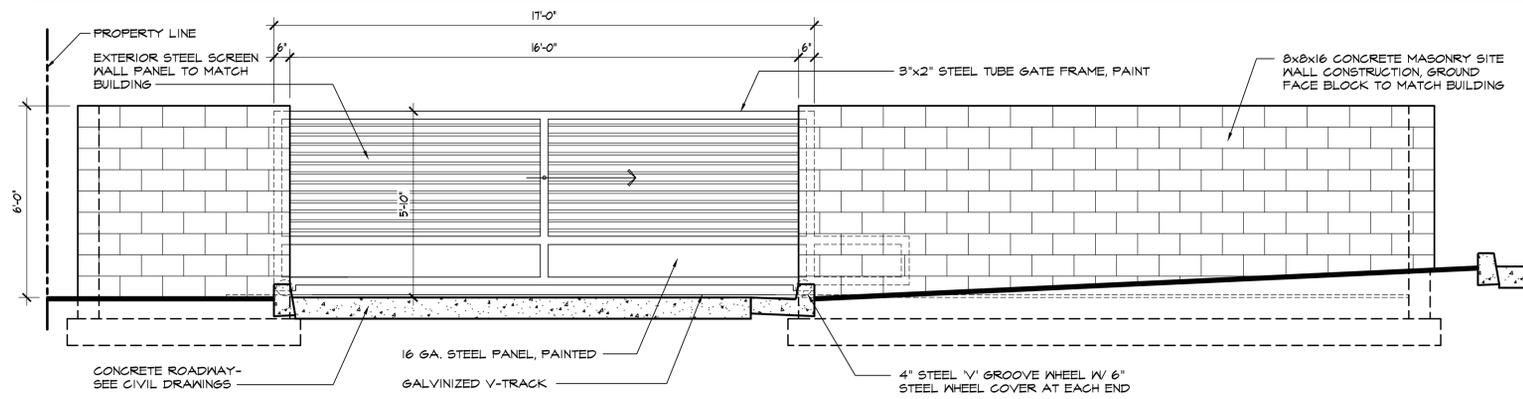
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Architects of Arizona
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480.951.5900 480.951.3045 f
perlmanaz.com

CITY OF MESA
ENGINEERING DEPARTMENT

MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

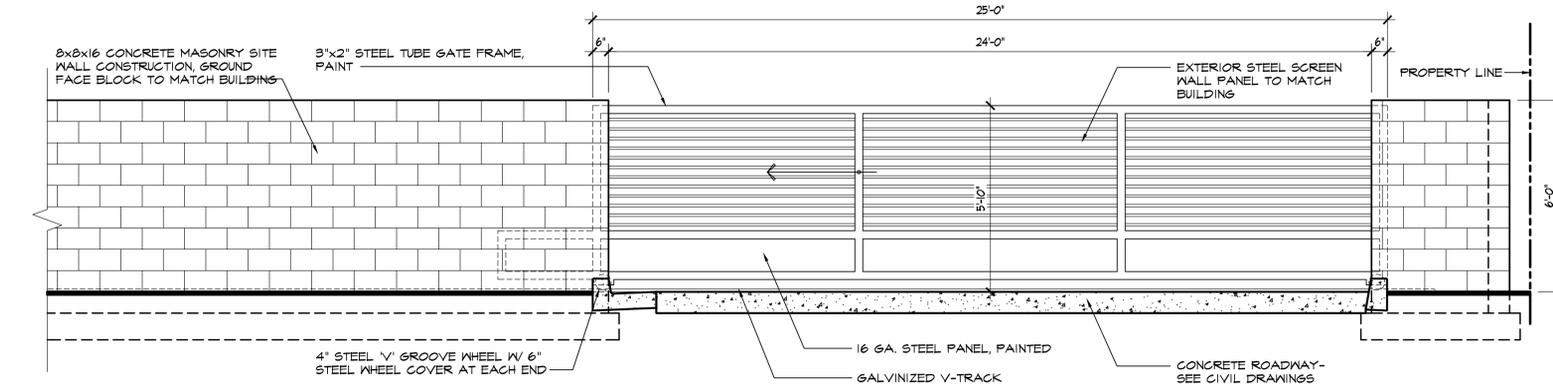
SITE ELEVATIONS A1.1

SHEET OF CATALOG NUMBER:



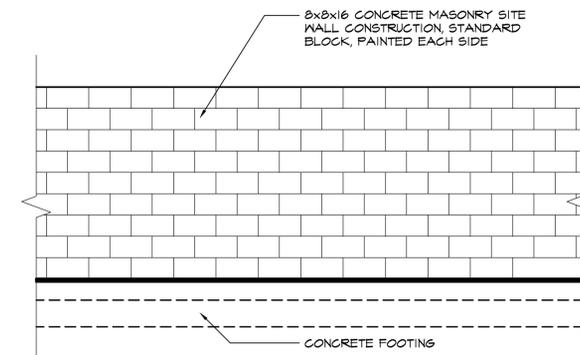
1 ROLLING GATE ELEVATION - SOUTH ELEVATION

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



2 ROLLING GATE ELEVATION - NORTH ELEVATION

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

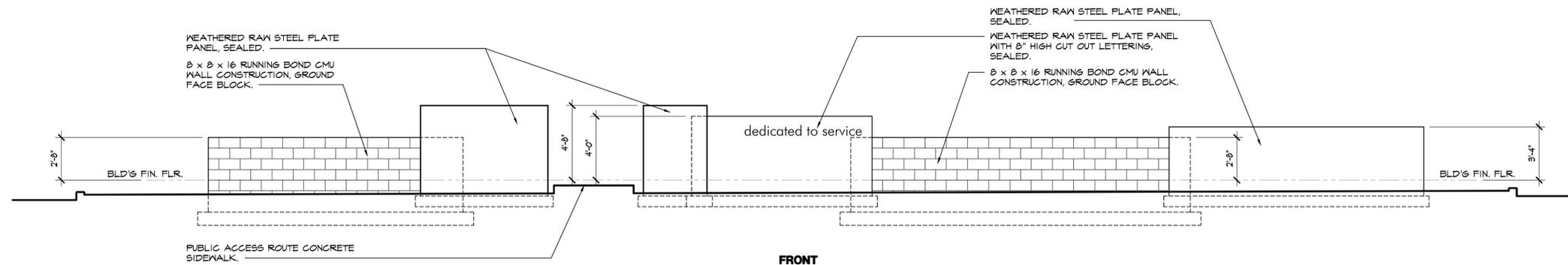


3 PERIMETER SITE WALL ELEVATION

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

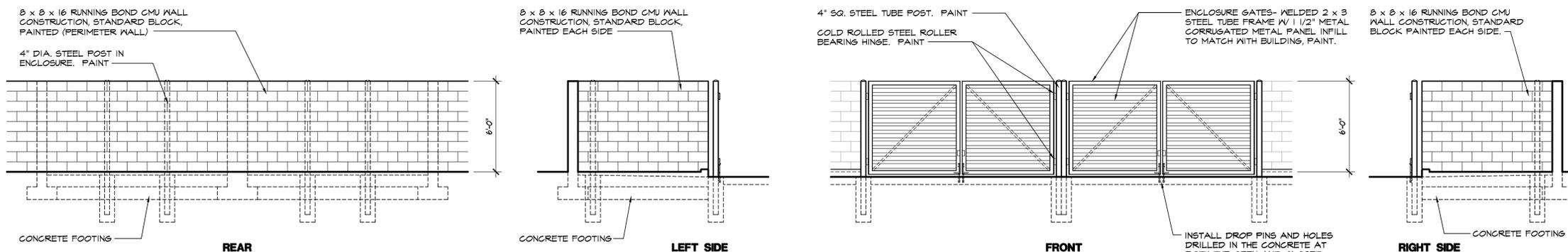
SITE WALL ELEVATION

ENTRY GATE ELEVATIONS



4 PARKING LOT SCREEN WALL - ELEVATIONS

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



5 DBL. TRASH ENCLOSURE - ELEVATIONS

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



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480.951.5900 480.951.3045 f
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MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

SITE ELEVATIONS

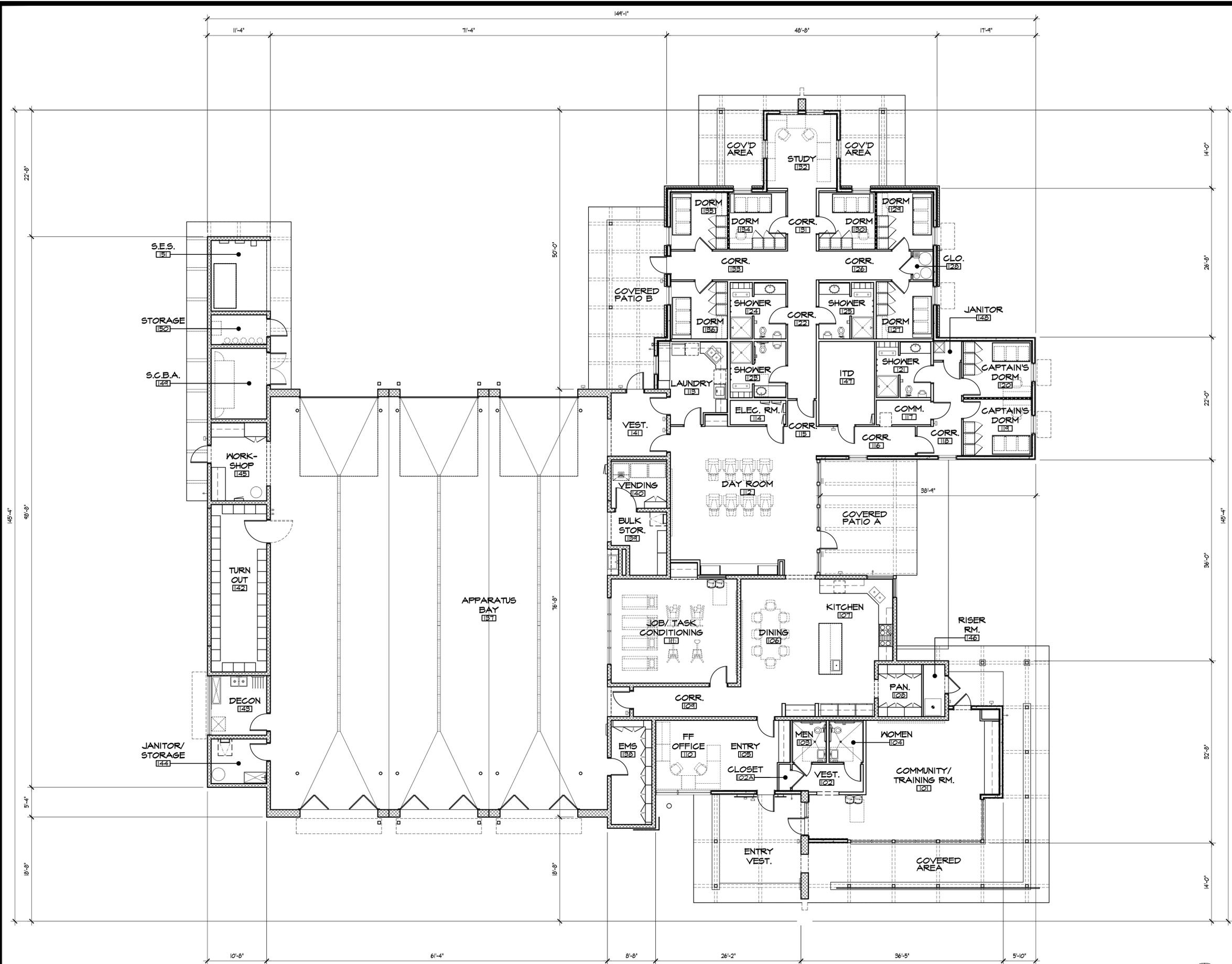
DRAWING
A1.1

DRWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

F165 AC
PROJ. NO. C10127
DR. NO. 2014-00541

SHEET
OF

CATALOG NUMBER:



1 FLOOR PLAN

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

DR FLOOR



25759
KENNETH W.
POWERS
Professional Engineer
ARIZONA, U.S.A.
EXPIRES: 12-31-2015

DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

F165 AC
PROJ. NO. C10127
DR. NO. 2014-00541

Perlman
Architects of Arizona
4808 N. 24th Street, Ste 100 Phoenix, Arizona 85016
480.951.5900 480.951.3045 f
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CITY OF MESA
ENGINEERING DEPARTMENT

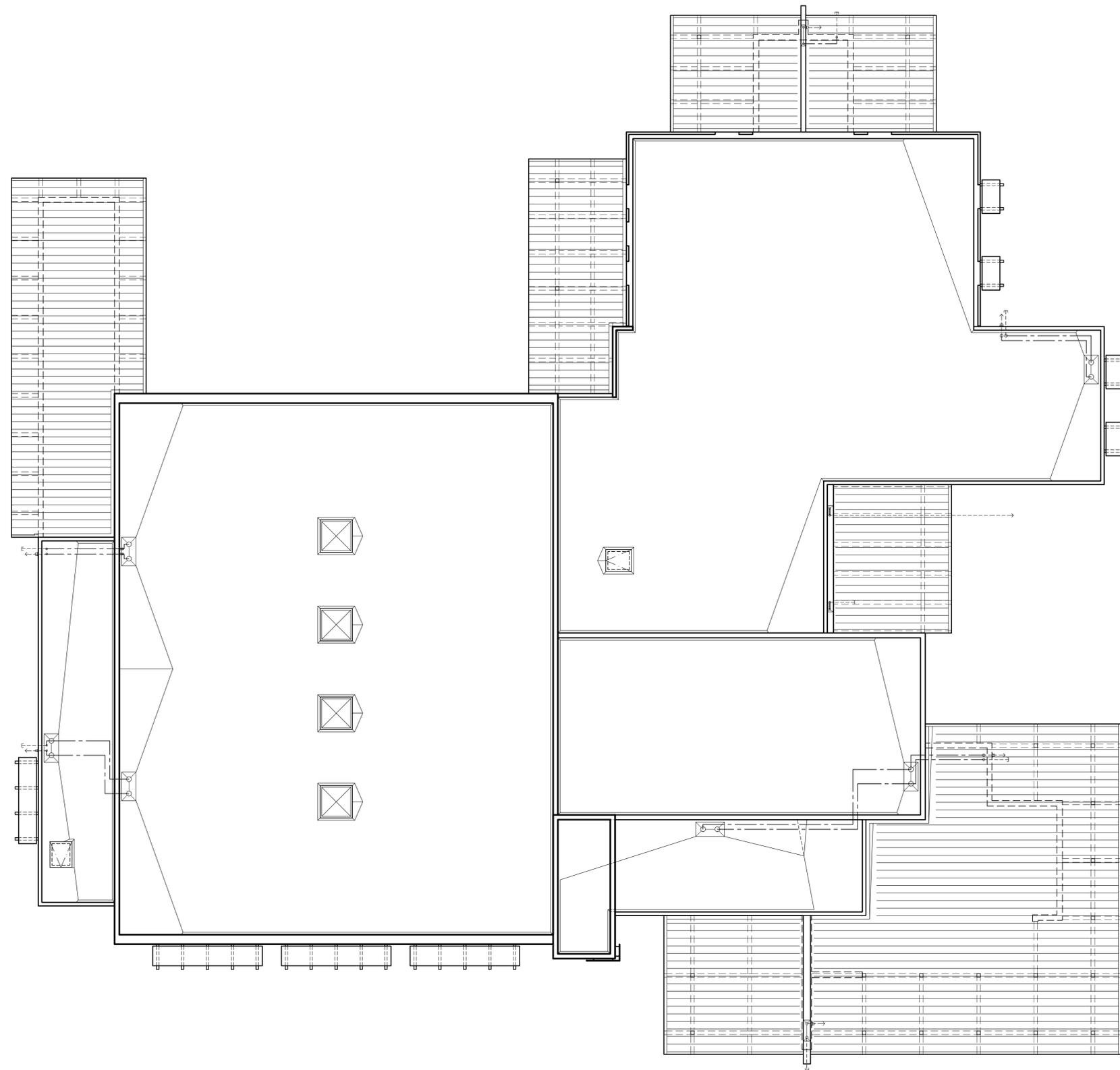
MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

FLOOR PLAN

DRAWING
A2.0

SHEET
OF

CATALOG NUMBER:



1 ROOF PLAN

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

DR ROOF



25759
KENNETH W.
POWERS
Professional Engineer
ARIZONA, U.S.A.
EXPIRES: 12-31-2015

DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

F165 AC
PROJ. NO. C10127
DR NO. 2014-00541

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Architects of Arizona
4808 N. 24th Street, Ste 100 Phoenix, Arizona 85016
480.951.5900 480.951.3045 f
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CITY OF MESA
ENGINEERING DEPARTMENT

MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

ROOF PLAN

DRAWING
A6.0

SHEET
OF

CATALOG NUMBER:

MATERIAL LEGEND

	MATERIAL PATTERN MANUFACTURER BLOCK TYPE COLOR	8x8x16 MASONRY RUNNING BOND SUPERLITE BLOCK TRENDSTONE (GROUND FACE) OPAL
	MATERIAL PATTERN MANUFACTURER BLOCK TYPE COLOR	8'H MASONRY VENEER RUNNING BOND SUPERLITE BLOCK TRENDSTONE (GROUND FACE) RUTHERFORD
	MATERIAL PATTERN MANUFACTURER COLOR	COR-TEN METAL PANELS RUNNING BOND (60x12) PITTSBURGH STEEL NATURAL RUST
	MATERIAL PATTERN MANUFACTURER TYPE COLOR	RIBBED METAL WALL PANELS HORIZONTAL RIB ATAS BELVEDERE RIB 70 CLEAR
	MATERIAL PATTERN MANUFACTURER TYPE COLOR	STANDING SEAM ROOF 1" BATTENS at 12-5/8" O.C. ATAS PC SNAP ON SYSTEM 24 ANTIQUE PATINA
	LOCATIONS MATERIAL COLOR/FINISH	STOREFRONT WINDOWS ALUMINUM CLEAR ANODIZED
	LOCATIONS MATERIAL MANUFACTURER COLOR	EXPOSED STEEL PAINT DUNN EDWARDS CUSTOM MATCH: 24 ANTIQUE PATINA
	LOCATIONS MATERIAL MANUFACTURER COLOR	HOLLOW METAL DOORS/ BOLLARDS PAINT DUNN EDWARDS DE6376 LOOKING GLASS



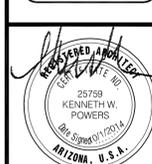
EAST ELEVATION

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



WEST ELEVATION

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



DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP
F185 AC
PROJ. NO. C10127

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Architects of Arizona
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480.951.5900 480.951.3045 f
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CITY OF MESA
ENGINEERING DEPARTMENT

MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

EXTERIOR ELEVATIONS A7.1

SHEET OF CATALOG NUMBER:

DRAWING
A7.1

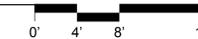
MATERIAL LEGEND

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	MATERIAL PATTERN MANUFACTURER BLOCK TYPE COLOR	8'H MASONRY VENEER RUNNING BOND SUPERLITE BLOCK TRENDSTONE (GROUND FACE) RUTHERFORD
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	MATERIAL PATTERN MANUFACTURER TYPE COLOR	STANDING SEAM ROOF 1" BATTENS at 12-5/8" O.C. ATAS PC SNAP ON SYSTEM 24 ANTIQUE PATINA
	LOCATIONS MATERIAL COLOR/FINISH	STOREFRONT WINDOWS ALUMINUM CLEAR ANODIZED
	LOCATIONS MATERIAL MANUFACTURER COLOR	EXPOSED STEEL PAINT DUNN EDWARDS CUSTOM MATCH: 24 ANTIQUE PATINA
	LOCATIONS MATERIAL MANUFACTURER COLOR	HOLLOW METAL DOORS/ BOLLARDS PAINT DUNN EDWARDS DE6376 LOOKING GLASS



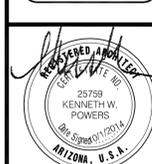
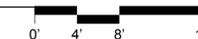
NORTH ELEVATION

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



SOUTH ELEVATION

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



25759
KENNETH W.
POWERS
Exp. 12/31/2015
ARIZONA, U.S.A.
EXPIRES: 12-31-2015
DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

Perlman
Architects of Arizona
4808 N. 24th Street Ste. 100 Phoenix, Arizona 85016
480.951.5900 480.951.3045 f
perlmanaz.com

CITY OF MESA
ENGINEERING DEPARTMENT

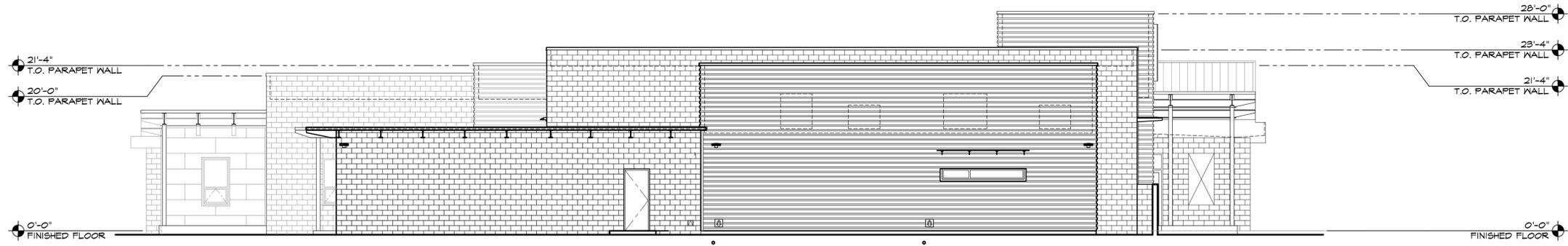
MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

EXTERIOR ELEVATIONS

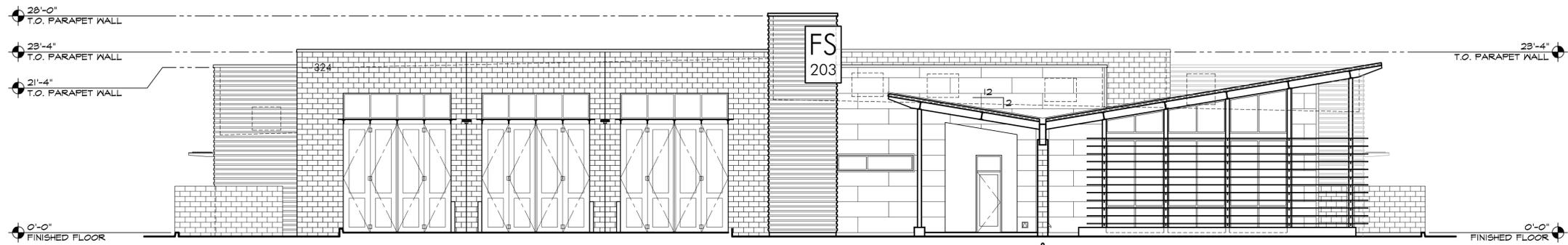
SHEET
OF

DRAWING
A7.2

CATALOG NUMBER:



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



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



25759
KENNETH W.
POWERS
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 12-31-2015
DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

Perlman
Architects of Arizona
4808 N. 24th Street, Ste 100 Phoenix, Arizona 85016
480.951.5900 480.951.3045 f
perlmanaz.com

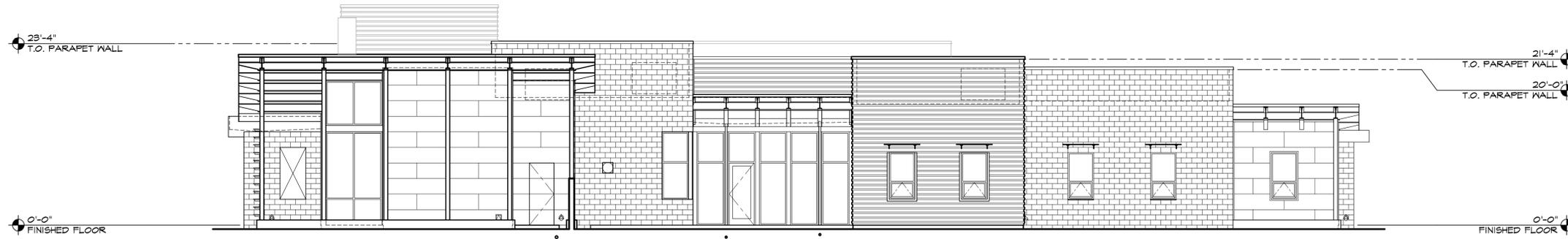
CITY OF MESA
ENGINEERING DEPARTMENT

MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

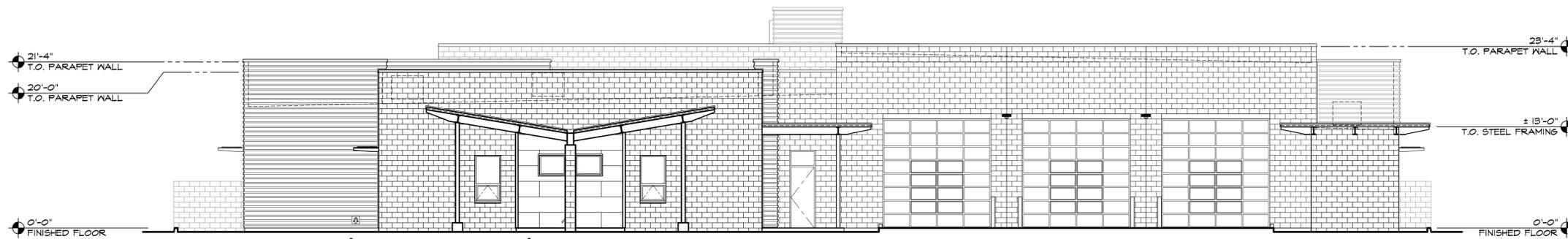
EXTERIOR ELEVATIONS A7.0

F165 AC
PROJ. NO. C10127
DR. NO. 2014-00541

SHEET OF CATALOG NUMBER:



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



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



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MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

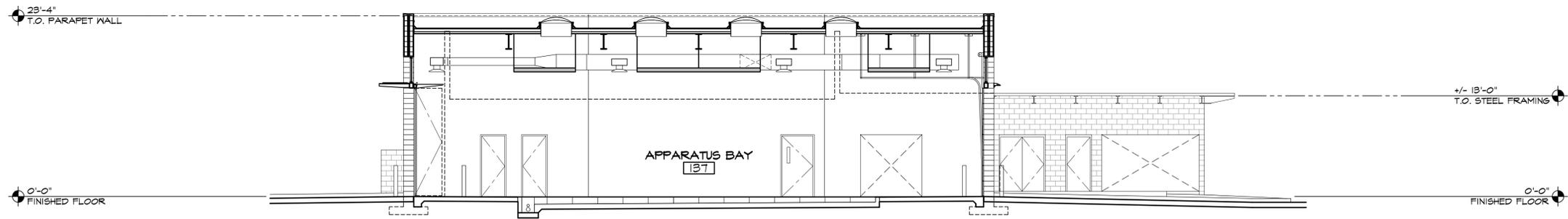
EXTERIOR ELEVATIONS A7.1

DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

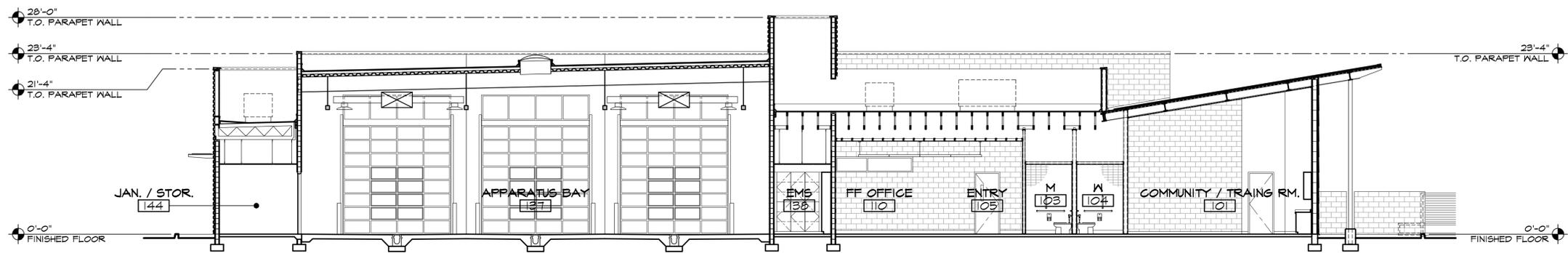
F165 AC
PROJ. NO. C10127
DR. NO. 2014-00541

SHEET
OF

CATALOG NUMBER:



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



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



25759
KENNETH W. POWERS
Professional Engineer
ARIZONA, U.S.A.
EXPIRES: 12-31-2015

DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

F165 AC
PROJ. NO. C10127
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Perlman
Architects of Arizona
4808 N. 24th Street, Ste 100 Phoenix, Arizona 85016
480.951.5900 480.951.3045 f
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CITY OF MESA
ENGINEERING DEPARTMENT

MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

BUILDING SECTIONS
A8.0

SHEET
OF

CATALOG NUMBER:

CITY OF MESA GENERAL NOTES

(REVISED 08-15-12)

- ALL WORK AND MATERIALS SHALL CONFORM TO CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS AND AS AMENDED BY THE CITY OF MESA. ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THESE AMENDED SPECIFICATIONS AND DETAILS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- THE INFORMATION SHOWN ON DRAWINGS CONCERNING THE TYPE AND LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER OR THE ENGINEER'S AGENT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND OVERHEAD UTILITIES.
 - CALL 602-263-1100 OR 811 FOR BLUE STAKE SERVICES.
 - CALL SALT RIVER POWER FOR POLE BRACING, ELECTRIC SERVICE OR CONSTRUCTION SCHEDULING AT 602-236-8888.
 - CALL CITY OF MESA ELECTRICAL FOR POLE BRACING, ELECTRICAL SERVICE OR CONSTRUCTION SCHEDULING AT 480-644-2251 WITHIN CITY OF MESA ELECTRICAL SERVICE TERRITORY (DOWNTOWN MESA).
 - WHEN EXCAVATING IN OR ADJACENT TO A CITY PARK OR AQUATIC FACILITY THE CONTRACTOR SHALL CONTACT AQUATICS AND PARKS MAINTENANCE AT 480-644-3097 TO REQUEST ASSISTANCE IN LOCATING UNDERGROUND UTILITY FACILITIES.
 - WHEN EXCAVATING IN OR ADJACENT TO LANDSCAPING WITHIN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL CONTACT TRANSPORTATION FIELD OPERATIONS AT 480-644-3038 TO REQUEST ASSISTANCE IN LOCATING UNDERGROUND IRRIGATION FACILITIES.
- THE CITY OF MESA HAS ADOPTED THE CITY OF PHOENIX 2007 TRAFFIC BARRICADE MANUAL. COPIES ARE AVAILABLE AT 1101 EAST JEFFERSON STREET, PHOENIX, ARIZONA. TELEPHONE 602-262-6235 OR [HTTP://PHOENIX.GOV/STREETS/TRAFFIC/INDEX.HTML](http://PHOENIX.GOV/STREETS/TRAFFIC/INDEX.HTML). CITY OF MESA HAS ISSUED A SUPPLEMENT TO THE PHOENIX TRAFFIC BARRICADE MANUAL. COPIES ARE AVAILABLE AT DEVELOPMENT SERVICES, 55 N. CENTER ST., MESA, ARIZONA. TELEPHONE 480-644-2160 OR BOTH MANUALS ARE AVAILABLE ONLINE AT: [HTTP://WWW.MESAAZ.GOV/TRANSPORTATION/BARRICADES.ASPX](http://WWW.MESAAZ.GOV/TRANSPORTATION/BARRICADES.ASPX).
- CONTRACTOR TO NOTIFY TRAFFIC OPERATIONS AT 480-644-3126 PRIOR TO SIGN REMOVAL AND WHEN READY TO PERMANENTLY RELOCATE SIGN.
- CONTRACTOR TO OBTAIN ANY PERMITS REQUIRED UNLESS OTHERWISE INDICATED, AND COORDINATE ALL IRRIGATION DRY-UPS, RELOCATIONS, AND REMOVALS BY OTHERS.
- CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AHEAD OF CONSTRUCTION TO ALLOW FOR ANY NECESSARY ADJUSTMENTS IN GRADE LINE AND TO VERIFY PIPE MATERIALS FOR ORDERING THE APPROPRIATE TRANSITION AND TIE-IN FITTINGS THAT MAY BE REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL ABANDONED UTILITIES THAT INTERFERE WITH PROPOSED IMPROVEMENTS. THE CITY OF MESA UTILITIES DEPARTMENT LOCATING SECTION WILL ASSIST THE CONTRACTOR AS NEEDED, IN DETERMINING IF THE UTILITY (GAS, WATER, AND WASTEWATER ONLY) IS ABANDONED BY CALLING 480-644-4500.
- PRIOR TO START OF CONSTRUCTION ON PRIVATE PROPERTY (EASEMENTS), THE CONTRACTOR SHALL GIVE THE OWNER SUFFICIENT TIME (MINIMUM 48 HOURS) TO REMOVE ANY ITEMS IN CONFLICT WITH CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE TO REMOVE AND REPLACE ALL OTHER CONFLICTS AS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE WORK SCHEDULES TO PREVENT ANY CONFLICTING WORK CONDITIONS WITH THE CITY OF MESA UTILITY AND TRANSPORTATION CREWS.
- THE CONTRACTOR IS ADVISED THAT A DUST CONTROL PERMIT AND A DUST CONTROL PLAN MAY BE REQUIRED BY THE MARICOPA COUNTY AIR QUALITY DEPARTMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THIS PERMIT, IF NECESSARY, AND COMPLY WITH ITS REQUIREMENTS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A COPY OF THE DUST CONTROL PERMIT AND DUST CONTROL PLAN TO THE CITY FOR REVIEW.
- INSPECTIONS SHALL BE PROVIDED BY THE CITY OF MESA. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTION DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- THE JOB SITE SHALL BE CLEANED OF ANY DEBRIS OR SPOIL RESULTING FROM THIS PROJECT AT THE COMPLETION OF CONSTRUCTION.
- ALL EQUIPMENT AND MATERIALS NOT SHOWN OR SPECIFIED ON THE PLANS OR SPECIFICATIONS, BUT REQUIRED TO COMPLETE THIS PROJECT, SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OF THIS CONTRACT WORK (NO ADDITIONAL COST TO THE CITY).
- WHEREVER PAVEMENT REPLACEMENT PER MESA STD DETAIL M-19.4 OR MAG STD DETAIL 200 IS REFERRED TO WITHIN THESE PLANS, BACKFILLING SHALL BE PER THE CITY OF MESA STREET TRENCH BACKFILLING AND PAVEMENT REPLACEMENT POLICY STATEMENT, REVISED SEPTEMBER 29, 1999.
- FOR PURPOSES OF PAVEMENT PER MAG STD DETAIL 200 OR MESA STD DETAIL M-19.4, INTERSECTIONS ARE DEFINED BY THE CURB RETURNS IN ALL DIRECTIONS.
- ANY SURVEY MARKERS DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN KIND BY A REGISTERED LAND SURVEYOR AT NO ADDITIONAL COST TO THE CITY.
- ALL EXISTING PAVEMENT MARKINGS, SIGNS, AND SIGNAL EQUIPMENT THAT ARE NOT PART OF THIS PROJECT BUT NEED TO BE REMOVED, REPLACED, RELOCATED, OR REPAIRED BECAUSE OF CONTRACTOR'S WORK WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS ADVISED THAT DAMAGE TO ANY PUBLIC SERVICES OR SYSTEMS AS A RESULT OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AND INSPECTED BY THE CITY INSPECTOR. DEPENDING ON DAMAGES, ALL REPAIRS SHALL BE DONE WITHIN 24 HOURS. THE CONTRACTOR IS ADVISED THAT ANY COSTS RELATED TO REPAIR OR REPLACEMENT OF DAMAGED PUBLIC SERVICES OR SYSTEMS AS A RESULT OF CONTRACTOR'S NEGLIGENCE SHALL BE BORNE BY THE CONTRACTOR.

CITY OF MESA WATER, WASTEWATER, AND STORM DRAIN GENERAL NOTES

(REVISED 05-08-12)

- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY FITTINGS AND ADAPTERS REQUIRED TO CONNECT DIFFERENT TYPES OF WATER LINE MATERIAL. THE COST SHALL BE INCLUDED IN THE LINEAR FOOT UNIT PRICE.
- FOR THE APPROVED PRODUCT LIST FOR WATER AND WASTEWATER PRODUCTS SEE: [HTTP://WWW.MESAAZ.GOV/ENGINEERING/APPROVEDPRODUCTSLIST.ASPX](http://WWW.MESAAZ.GOV/ENGINEERING/APPROVEDPRODUCTSLIST.ASPX).
- MINOR VERTICAL OR HORIZONTAL DEFLECTIONS SHALL BE BY PIPE JOINT DEFLECTION UNLESS OTHERWISE NOTED. PIPE JOINT DEFLECTION SHALL NOT EXCEED 3 DEGREES OR 2/3 OF PIPE MANUFACTURER'S RECOMMENDATIONS WHICHEVER IS LESS.
- WATER LINE TESTS SHALL BE COMPLETED SO THAT NO EXISTING LINES OR VALVES ARE INCLUDED IN THE TEST. A DAYTIME TIE-IN (BETWEEN 9:00AM AND 2:00PM) MAY BE REQUIRED BY CITY INSPECTOR. FOR A DAYTIME TIE-IN (BETWEEN 9:00AM AND 2:00PM), THE CONTRACTOR SHALL COMPLETE ALL WORK NECESSARY TO RESTORE UTILITY SERVICE AND FULLY OPEN THE TIE-IN AREA TO TRAFFIC WITHIN THE TIME ALLOWED.
- WATER METERS, METER BOXES, LIDS, ETC. IN CONFLICT WITH NEW CONSTRUCTION SHALL BE RELOCATED TO THE PROPERTY LINE BY THE CONTRACTOR. THE RELOCATION SHALL INCLUDE ALL MATERIALS NECESSARY TO RECONNECT THE METER TO THE CITY DISTRIBUTION SYSTEM.
- VALVES SHALL BE INSTALLED WITH VALVE BOX AND COVER PER MAG STD DETAILS 391-1, TYPE C; AND 391-2 IF 2" OPERATING NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE OF THE CENTERLINE OF THE PIPE.
- ALL WATER LINE PLUGS SHALL BE POURED CONCRETE. WATER LINE PLUGS FOR ACTIVE LINES SHALL CONFORM TO THE FOLLOWING:
 - 12" AND SMALLER DIAMETER PER MESA STANDARD DETAIL M-50.
 - 16" DIAMETER PER M.A.G. STANDARD DETAIL 390, TYPE B.
 - GREATER THAN 16" DIAMETER, AS DESIGNED PER PLAN.
- WHEN GROUTING OR CASTING CONCRETE AROUND PVC PIPE, CONTRACTOR SHALL USE WATER STOPS AS RECOMMENDED BY THE MANUFACTURER.
- ALL WASTEWATER MANHOLES SHALL BE CONSTRUCTED PER MAG STD DETAILS 420-1, TYPE 'A' TOP; AND 423-2 EXCEPT THAT:
 - ALL MANHOLE SHAFTS SHALL BE 5' INSIDE DIAMETER.
 - ALL MANHOLE RINGS AND COVERS SHALL BE 30" DIAMETER.
 - STEPS SHALL NOT BE INCLUDED.
- ALL STORM DRAIN MANHOLES SHALL BE CONSTRUCTED PER MAG STD DETAILS 520, AND 522 EXCEPT THAT:
 - ALL MANHOLE SHAFTS SHALL BE 5' INSIDE DIAMETER.
 - STEPS SHALL NOT BE INCLUDED.

CITY OF MESA PAVING GENERAL NOTES

(REVISED 01-09-12)

- CONTRACTOR SHALL COORDINATE ALL DRIVEWAY LOCATIONS WITH PRIVATE PROPERTY OWNERS AND THE CITY INSPECTOR.
- FOR THE APPROVED LIST OF PAVING PRODUCTS SEE: [HTTP://WWW.MESAAZ.GOV/ENGINEERING/APPROVEDPRODUCTSLIST.ASPX](http://WWW.MESAAZ.GOV/ENGINEERING/APPROVEDPRODUCTSLIST.ASPX).
- ALL GUTTER GRADES LESS THAN 0.0020 FT/FT SHALL BE STAKED ALONG THE ACTUAL GUTTER ALIGNMENT (NOT OFFSET) AND CHECKED BY CITY OF MESA INSPECTOR IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE.
- ALL FRAMES, COVERS, VALVE BOXES, ETC. SHALL BE ADJUSTED BY THE CONTRACTOR TO FINISHED GRADE AFTER PLACEMENT OF ASPHALT CONCRETE SURFACE COURSE PER MAG STD DETAILS 270, 422, OR 391-1-C.

CITY OF MESA GAS GENERAL NOTES

(REVISED 02-07-12)

- ALL WORK AND MATERIALS SHALL CONFORM TO THE CURRENT CITY OF MESA GAS OPERATIONS, MAINTENANCE, EMERGENCY RESPONSE, AND CONSTRUCTION PRACTICE MANUAL.
- WHEN GAS MAIN AND/OR SERVICES ARE EXPOSED, CONTACT THE CITY OF MESA AT 480-644-2261 FOR INSPECTION OF THE EXPOSED PIPE AND COATING PRIOR TO BACKFILLING THE TRENCH.
- BEDDING OR SHADING MATERIAL ADJACENT TO THE CITY GAS PIPE SHALL BE SELECT SANDY TYPE SOIL FREE OF ROCK OR DEBRIS THAT WILL PASS THROUGH A 3/8 INCH "SCREEN" AS INSPECTED AND APPROVED BY THE CITY GAS INSPECTION PERSONNEL.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AS INDICATED ON MESA STD DETAIL M-58 WHEN TRENCHING FOR THE WATER LINE WHERE A GAS MAIN IS TO BE INSTALLED IN THE SAME TRENCH.
- CONTACT THE GAS DIVISION AT 480-250-2982 FOR SCHEDULING AND COORDINATION OF THE INSTALLATION OF NATURAL GAS MAINS AND/OR SERVICES.
- GAS LINE SHALL MAINTAIN A NOMINAL TWELVE (12) INCHES (MINIMUM OF EIGHT (8) INCHES) SEPARATION FROM EXISTING WATER, WASTEWATER, ELECTRICAL, CABLE TV, AND TELCO FACILITIES.

 <p>SCALE IN FEET</p>	 <p>NORTH</p>	<p>BENCHMARK: BRASS TAG ON T.C. AT N.E. COR. OF THE INTERSECTION OF S. STAPLEY DR. AND E. BROADWAY RD. ELEVATION=1233.57 (C.O.M. DATUM)</p>
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DATE SAVED: 10/27/14 05:22:41119-011.65CAD\CIVIL\SA14-SP-NT-41119.DWG

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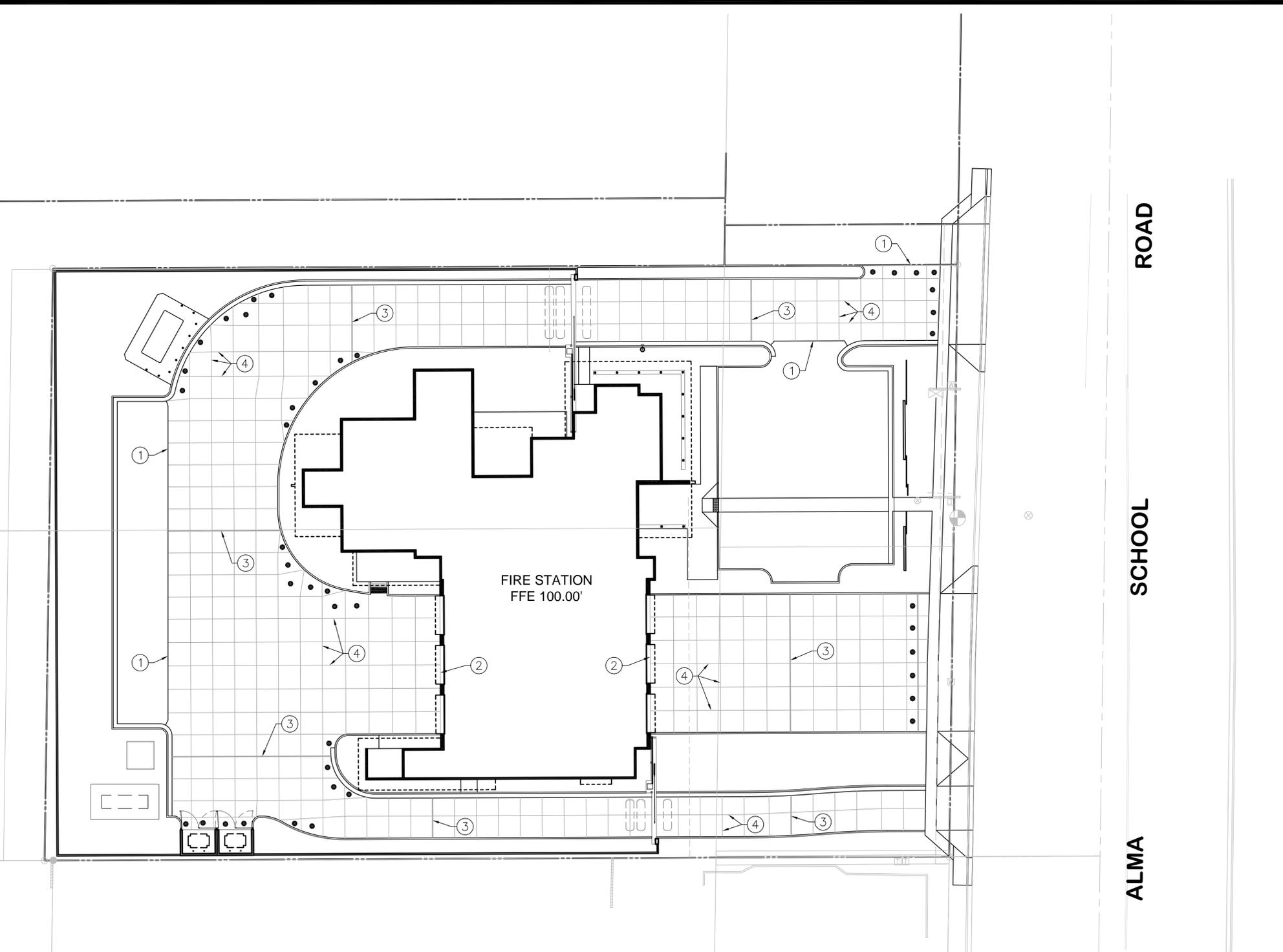
430 W. Warner Road, Suite B101 Tempe, Arizona 85284
480-753-0900 www.dowlhkm.com

 <p>Professional Engineer 47102 WILLIAM E. GASQUE Date Signed: 10-27-14 ARIZONA, U.S.A. Expires 12/31/2016</p>	<p>Perlman Architects of Arizona 4808 N. 24th Street, Ste 100 Phoenix, Arizona 85016 480.951.5900 480.951.3045 f perlmanaz.com</p>
<p>CITY OF MESA ENGINEERING DEPARTMENT</p>	
<p>MESA FIRE STATION NO. 203 324 SOUTH ALMA SCHOOL ROAD</p>	
<p>GENERAL NOTES</p>	<p>DRAWING C0.1</p>
<p>SHEET OF</p>	<p>CATALOG NUMBER:</p>

DRAWN BY: ERO/WEG
PROJECT MANAGER: WEG
APPROVED BY: WEG

F185 AC
PROJ. NO. C10127

DATE: 10/25/14 0:\22\41119-01\65CAD\CIVIL\SA14-SP-JP-41119.DWG



SCALE IN FEET 0 20

BENCHMARK:
BRASS TAG ON T.C. AT N.E. COR.
OF THE INTERSECTION OF S.
STAPLEY DR. AND E. BROADWAY RD.
ELEVATION=1233.57' (C.O.M. DATUM)

NORTH

CONCRETE JOINTING KEYNOTES

- ① CONSTRUCT THICKENED EDGE AT CONCRETE PAVING INTERFACE WITH ASPHALT PAVEMENT PER DETAILS ON SHEET C6.1.
- ② REFER TO THE STRUCTURAL PLANS FOR TIE-IN CONDITION AT THE CONCRETE BUILDING SLAB AT THE OVERHEAD DOORS.
- ③ CONSTRUCT EXPANSION JOINT PER JOINTING DETAILS.
- ④ CONTROL JOINTS (TYP) PER JOINTING DETAILS.

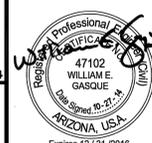
CONCRETE JOINTING NOTES

- 1. CONTROL JOINTS AND EXPANSION JOINTS HAVE BEEN INDICATED ON THE PLAN. REFER TO DETAILS ON SHEET C6.1.
- 2. PANELS MARKED WITH A SOLID CIRCLE SHALL HAVE ADDITIONAL REINFORCEMENT AS SHOWN ON DETAIL ON SHEET C6.1.
- 3. THE CONTRACTOR MAY MODIFY THE JOINTING LAYOUT, BUT SHALL SUBMIT MODIFIED JOINT LAYOUT PLAN TO THE ENGINEER FOR APPROVAL.

ALMA SCHOOL ROAD



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ENGINEERING DEPARTMENT

MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

CONCRETE JOINTING
PLAN

DRAWING
C2.1

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DOWL HKM

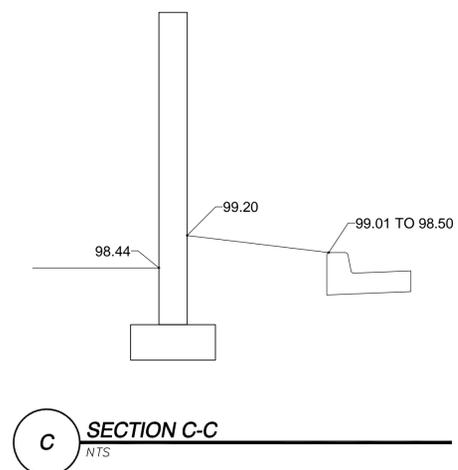
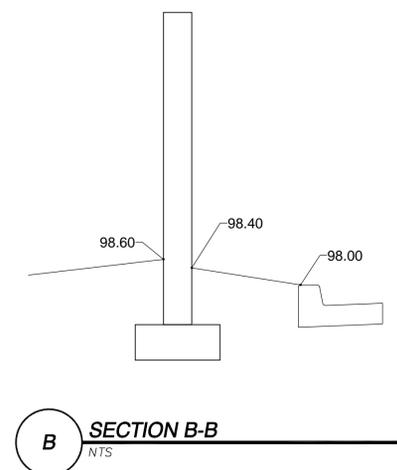
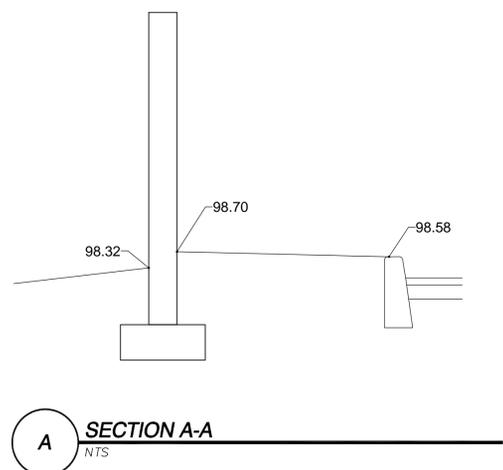
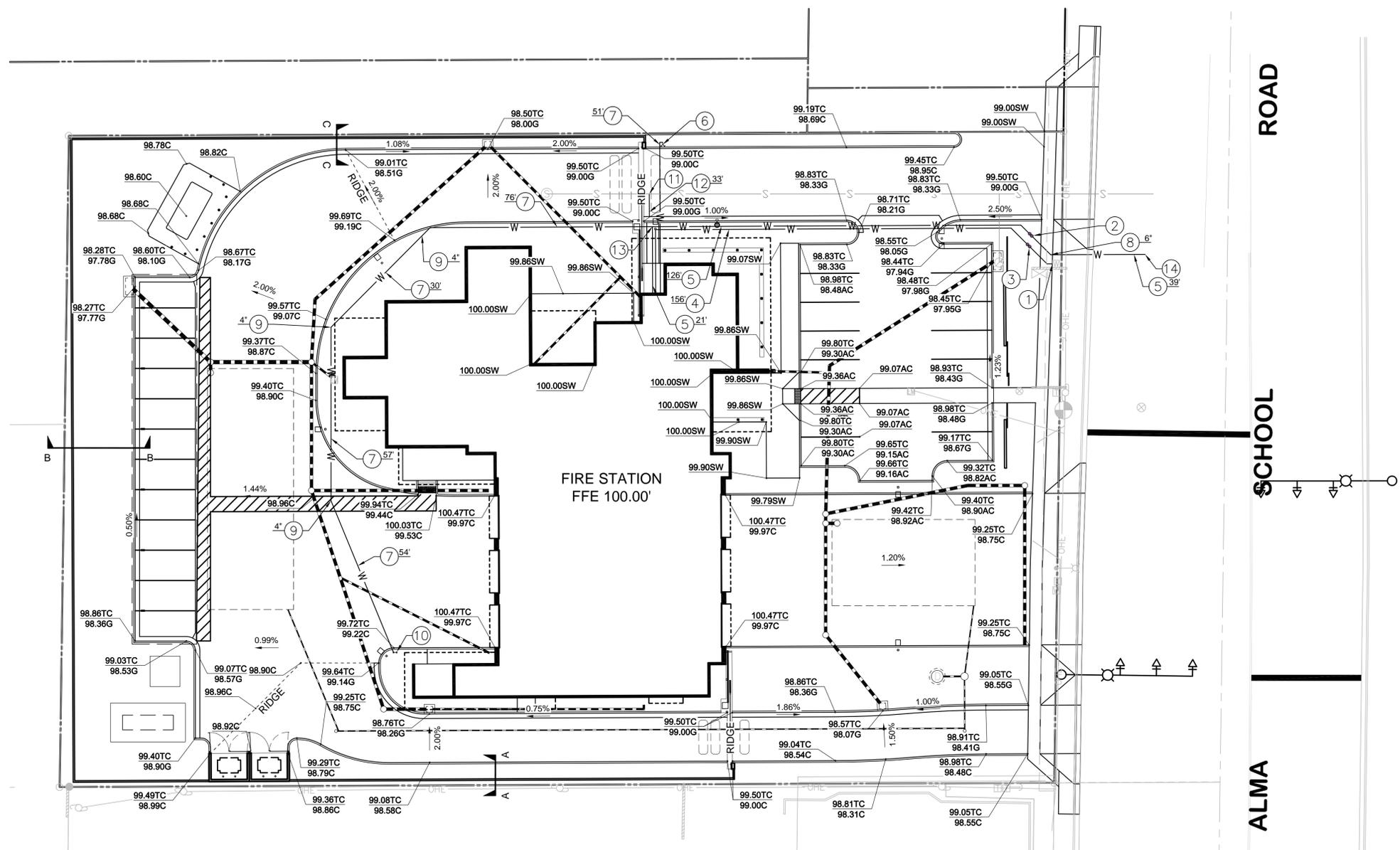
430 W. Warner Road, Suite B101 Tempe, Arizona 85284
480-753-0800 www.dowlhkm.com

F165 AC
PROJ. NO. C10127

SHEET OF CATALOG NUMBER:

WATER & SEWER KEYNOTES

- ① CONNECT TO EXISTING DOMESTIC WATER METER.
- ② INSTALL 6" DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY PER COM STD DTL M-31.02.
- ③ INSTALL 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY PER COM STD DTL M-31.03.
- ④ INSTALL 2" TYPE K COPPER WATER SERVICE PER COM STD DTL M-49.01 AND M-49.02.
- ⑤ INSTALL 6" PVC C900 WATER LINE. LENGTH PER PLAN.
- ⑥ INSTALL REMOTE FIRE DEPARTMENT CONNECTION.
- ⑦ INSTALL 4" PVC C900 WATER LINE. LENGTH PER PLAN.
- ⑧ INSTALL 45° BEND. SIZE PER PLAN.
- ⑨ INSTALL 22.5° BEND. SIZE PER PLAN.
- ⑩ INSTALL APPARATUS FILL CONNECTION. SEE ARCHITECTURAL PLANS FOR DETAILS.
- ⑪ CONNECT TO EXISTING SEWER.
- ⑫ INSTALL 4" PVC SDR-35 SANITARY SEWER SERVICE. LENGTH PER PLAN.
- ⑬ INSTALL 6"x4"x4" DI TEE.
- ⑭ CONNECT TO EXISTING WATER MAIN.



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MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

GRADING, DRAINAGE, AND UTILITY PLAN

DRAWING C3.0



DRAWN BY: ERO/WEG
PROJECT MANAGER: WEG
APPROVED BY: WEG

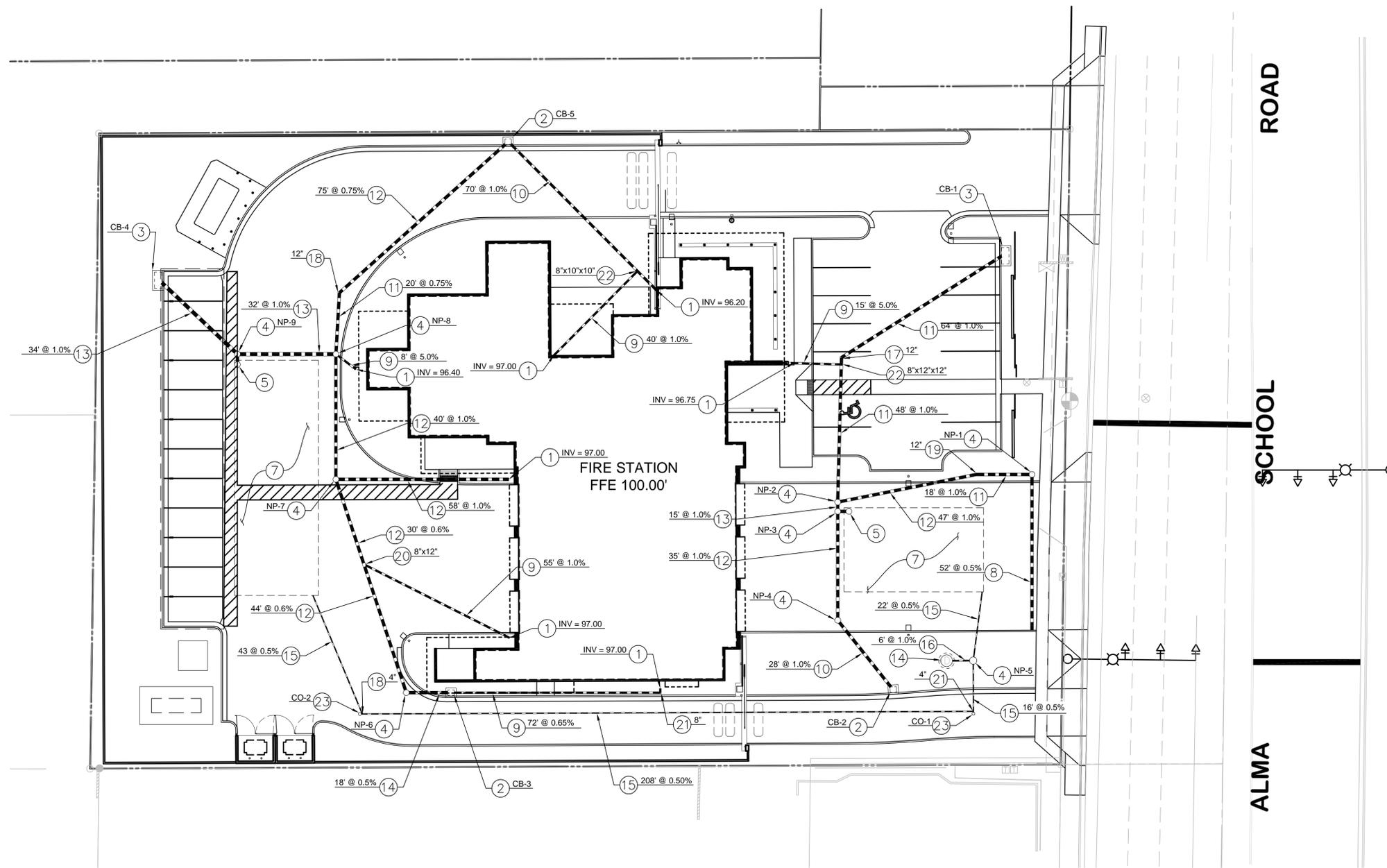
F165 AC
PROJ. NO. C10127

SHEET OF CATALOG NUMBER:

DATE: 10/25/14 0:\22\41119-01\65CAD\CIVIL\SA14-SP-CD-41119.DWG

STORM DRAIN KEYNOTES

- 1 CONNECT TO ROOF DRAIN USING FITTINGS AND REDUCERS AS NECESSARY. REFER TO PLUMBING PLANS FOR EXACT LOCATION.
- 2 INSTALL MODIFIED CATCH BASIN TYPE A PER MAG STANDARD DETAIL 530. MODIFY STANDARD TO PROVIDE A 24" SUMP BELOW LOWEST INVERT.
- 3 INSTALL MODIFIED CATCH BASIN TYPE B PER MAG STANDARD DETAIL 531. MODIFY STANDARD TO PROVIDE 24" SUMP BELOW LOWEST INVERT.
- 4 INSTALL 24" DIA. NYLOPLAST DRAIN BASIN WITH SOLID LID.
- 5 INSTALL 24" DIA. NYLOPLAST WEIR STRUCTURE.
- 6 INSTALL 30" DIA. MODIFIED NYLOPLAST WEIR STRUCTURE. STRUCTURE SHALL BE MODIFIED TO INCLUDE 4" ORIFICE AT THE INVERT.
- 7 CONSTRUCT MC-4500 STORMTECH CHAMBER UNDERGROUND RETENTION STORAGE SYSTEM PER DETAILS ON SHEET C6.0. UNDERGROUND STORAGE SYSTEM SHALL HAVE ONE INSPECTION PORT PER ROW.
- 8 INSTALL 12" ADS DURASLOT WITH VARIABLE HEIGHT SLOT PER DETAIL ON SHEET C6.1. LENGTH AND SLOPE AS SHOWN ON PLANS.
- 9 INSTALL 8" HDPE DOUBLE WALLED STORM DRAIN WITH SMOOTH INTERIOR AND WATER TIGHT JOINTS. LENGTH AND SLOPE PER PLAN.
- 10 INSTALL 10" HDPE DOUBLE WALLED STORM DRAIN WITH SMOOTH INTERIOR AND WATER TIGHT JOINTS. LENGTH AND SLOPE PER PLAN.
- 11 INSTALL 12" HDPE DOUBLE WALLED STORM DRAIN WITH SMOOTH INTERIOR AND WATER TIGHT JOINTS. LENGTH AND SLOPE PER PLAN.
- 12 INSTALL 12" ADS HP STORM PIPE WITH SMOOTH INTERIOR AND WATER TIGHT JOINTS. LENGTH AND SLOPE PER PLAN.
- 13 INSTALL 15" ADS HP STORM PIPE WITH SMOOTH INTERIOR AND WATER TIGHT JOINTS. LENGTH AND SLOPE PER PLAN.
- 14 INSTALL MAXWELL IV SINGLE-CHAMBER DRYWELL PER DETAIL ON SHEET C6.1.
- 15 INSTALL 4" DIAMETER PVC SDR-35 PIPE. LENGTH AND SLOPE PER PLAN.
- 16 INSTALL 6" DIAMETER PVC SDR-35 PIPE. LENGTH AND SLOPE PER PLAN.
- 17 INSTALL 56.25° HDPE BEND AT SIZE SHOWN.
- 18 INSTALL 45° ADS HP STORM HDPE BEND AT SIZE SHOWN.
- 19 INSTALL 11.25° HDPE BEND AT SIZE SHOWN.
- 20 INSTALL 45° ADS HP STORM HDPE WYE AT SIZE SHOWN.
- 21 INSTALL 90° HDPE BEND AT SIZE SHOWN.
- 22 INSTALL HDPE TEE AT SIZE SHOWN.
- 23 INSTALL MODIFIED SEWER CLEANOUT PER MAG STANDARD DETAIL 441 WITH "STORM" ON COVER.



DRAINAGE STRUCTURE SUMMARY TABLE

STRUCTURE ID	TYPE / SIZE	TC / RIM ELEV.	INVERT 1 ELEV.	INVERT 2 ELEV.	INVERT 3 ELEV.	INVERT 4 ELEV.	SUMP ELEV.
CB-1	Type B	98.4	95.4				93.4
CB-2	Type A	98.57	95.57				93.57
CB-3	Type A	98.76	96.53 (E)	96.43 (W)			94.43
CB-4	Type B	98.27	95				93
CB-5	Type A	98.5	95.50 (SE)	95.40 (SW)			93.4
NP-1	24"	99.10	96.32 (S)	96.12 (W)			91.14
NP-2	24"	99.54	94.25 (N)	95.47 (E)	92.47 (S)		90.47
NP-3	24"	99.54	94.84 (S)	92.44 (N)	92.34 (E)		90.34
NP-4	24"	99.54	95.29 (SE)	95.19 (N)			93.19
NP-5	24"	98.48	90.87 (N)	88.97 (S)	88.80 (W)		
NP-6	24"	98.65	96.34 (E)	96.24 (NW)			94.24
NP-7	24"	99.88	96.42 (E)	95.80 (SE)	95.68 (N)		93.68
NP-8	24"	99.20	96.00 (SE)	95.28 (S)	94.69 (N)	94.46 (W)	92.46
NP-10	24"	98.37	94.66 (NW)	94.14 (E)	94.04 (S)		92.04
Dry Well	Type IV	98.59	90.81				



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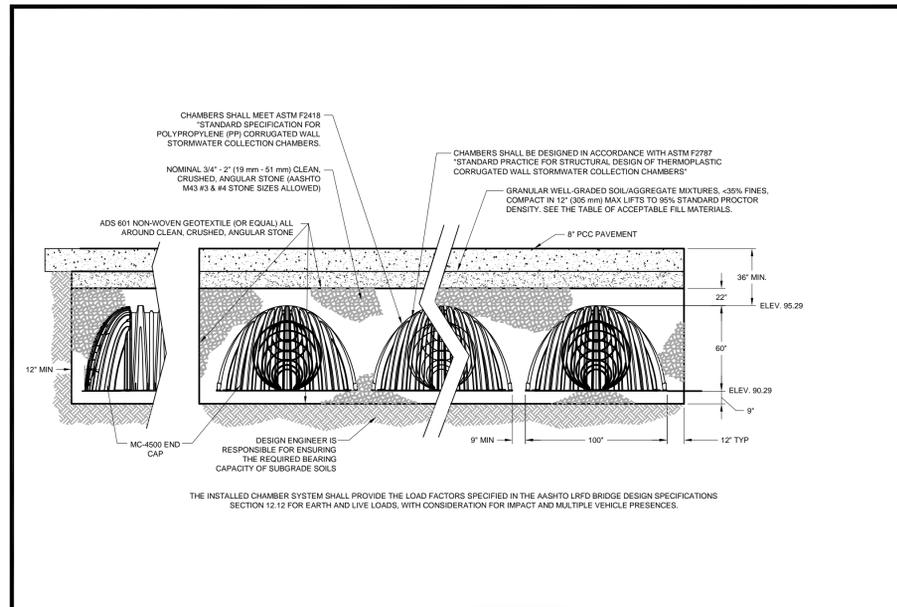
MESA FIRE STATION NO. 203
 324 SOUTH ALMA SCHOOL ROAD

STORM DRAIN PLAN

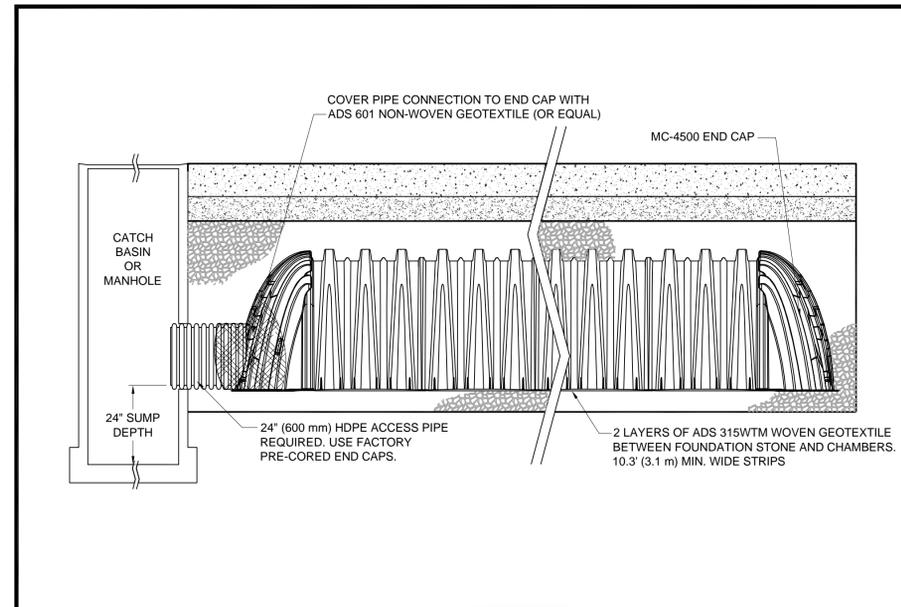
DRAWING C3.1

SHEET OF CATALOG NUMBER:

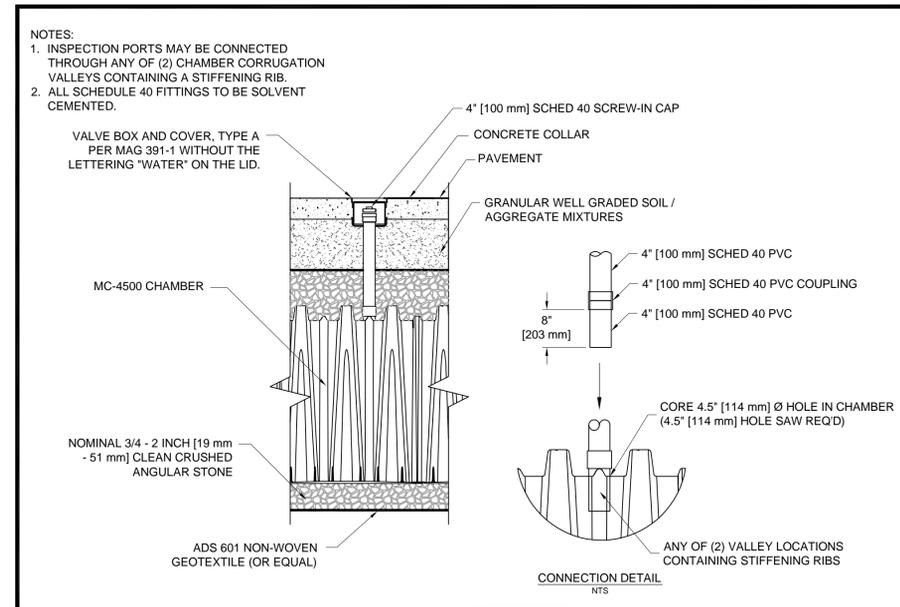
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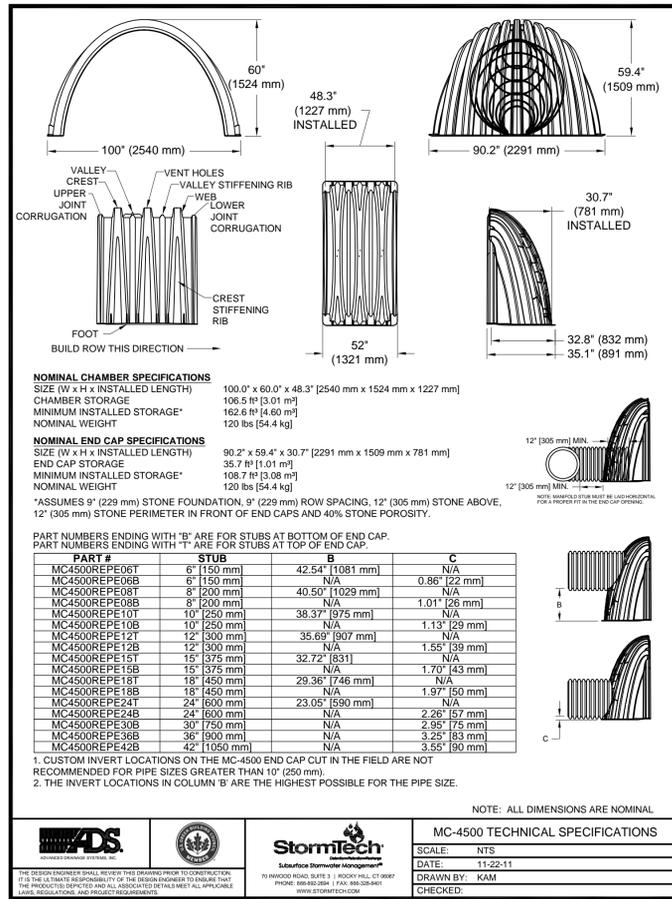
MC-4500 TYP CROSS SECTION	
SCALE:	NTS
DATE:	08-22-12
DRAWN BY:	JLM
CHECKED:	



MC-4500 ISOLATOR ROW PROFILE	
SCALE:	NTS
DATE:	12-29-10
DRAWN BY:	JM
CHECKED:	KJM



MC-4500 INSPECTION PORT DETAIL	
SCALE:	NTS
DATE:	6/15/11
DRAWN BY:	KLJ
CHECKED:	KAM



MC-4500 TECHNICAL SPECIFICATIONS	
SCALE:	NTS
DATE:	11-22-11
DRAWN BY:	KAM
CHECKED:	

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MESA FIRE STATION NO. 203
 324 SOUTH ALMA SCHOOL ROAD

UNDERGROUND
 RETENTION DETAILS

DRAWING
 C6.0

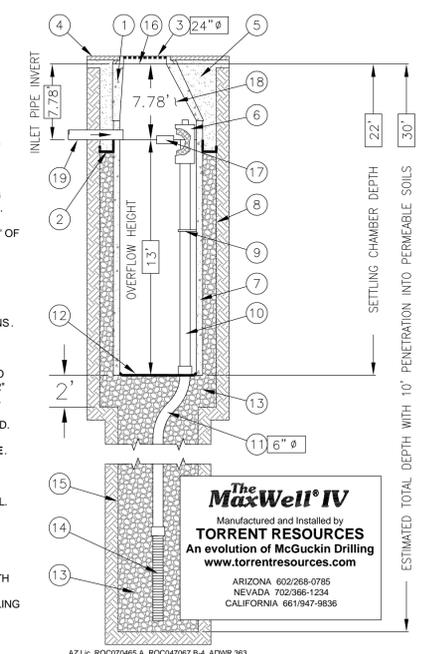
SHEET OF CATALOG NUMBER:
 OF

DATE: 10/25/14 0:\22\41119-01\65CAD\CIVIL\SA14-SP-DT-41119.DWG

The MaxWell® IV Drainage System Detail And Specifications

ITEM NUMBERS

1. MANHOLE CONE - MODIFIED FLAT BOTTOM.
2. MOISTURE MEMBRANE - 6 MIL. PLASTIC. APPLIES ONLY WHEN NATIVE MATERIAL IS USED FOR BACKFILL. PLACE MEMBRANE SECURELY AGAINST ECCENTRIC CONE AND HOLE SIDEWALL.
3. BOLTED RING & GRATE - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORDING "STORM WATER ONLY" IN RAISED LETTERS. BOLTED IN 2 LOCATIONS AND SECURED TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
4. GRADED BASIN OR PAVING (BY OTHERS).
5. COMPACTED BASE MATERIAL - 1 SACK SLURRY EXCEPT IN LANDSCAPED INSTALLATIONS WITH NO PIPE CONNECTIONS.
6. PUREFLO® DEBRIS SHIELD - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
7. PRE-CAST LINER - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
8. MIN. 6" Ø DRILLED SHAFT.
9. SUPPORT BRACKET - FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED.
10. OVERFLOW PIPE - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
11. DRAINAGE PIPE - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. BASE SEAL - GEOTEXTILE OR CONCRETE SLURRY.
13. ROCK - WASHED, SIZED BETWEEN 3/8" AND 1-1/2" TO BEST COMPLEMENT SOIL CONDITIONS.
14. FLOFAST® DRAINAGE SCREEN - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 120" OVERALL LENGTH WITH TRI-B COUPLER.
15. MIN. 4" Ø SHAFT - DRILLED TO MAINTAIN PERMEABILITY OF DRAINAGE SOILS.
16. FABRIC SEAL - U.V. RESISTANT GEOTEXTILE - TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.
17. ABSORBENT - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.
18. FREEBOARD DEPTH VARIES WITH INLET PIPE ELEVATION. INCREASE SETTLING CHAMBER DEPTH AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE OVERFLOW PIPE INLET.
19. OPTIONAL INLET PIPE (MAXIMUM 4" BY OTHERS). EXTEND MOISTURE MEMBRANE AND COMPACTED BASE MATERIAL OR 1 SACK SLURRY BACKFILL BELOW PIPE INVERT.

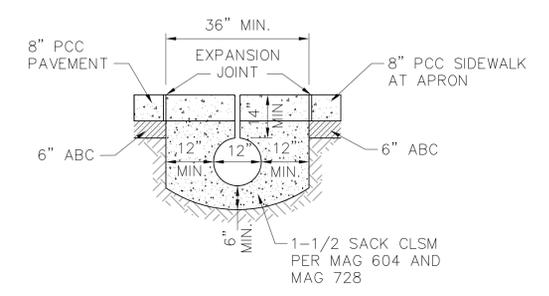


The MaxWell® IV
Manufactured and Installed by
TORRENT RESOURCES
An evolution of McGuckin Drilling
www.torrentresources.com

ARIZONA 602/268-0795
NEVADA 702/368-1234
CALIFORNIA 661/947-9836

AZ Lic: ROC070466 A, ROC047067 B-4 ADWR 363
CA Lic: 529080, C-42, HAZ
NV Lic: 0035350 A - NM Lic: 90504 GF04
U.S. Patent No. 4,923,330 - TM Trademark 1974, 1990, 2004

1 MAXWELL IV DRYWELL DETAIL
NTS



2 DURASLOT DETAIL
NTS

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ARIZONA 810
Arizona Blue State, Inc.
Date: 10-13-14
47102 STAZ. (T) 2782-2148
Mesa County: 802-263-1100

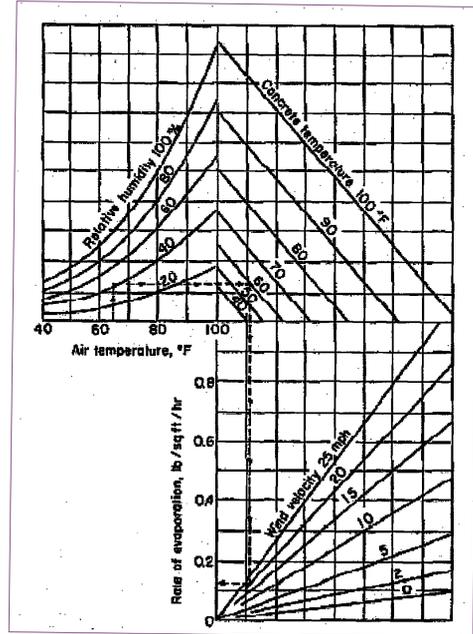
Professional Engineer
47102
WILLIAM E. GASQUE
Date Signed: 10-27-14
ARIZONA, U.S.A.
Expires 12/31/2016

DRAWN BY: ERO/WEG
PROJECT MANAGER: WEG
APPROVED BY: WEG

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MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

DRAINAGE DETAILS
SHEET OF
CATALOG NUMBER:
C6.1

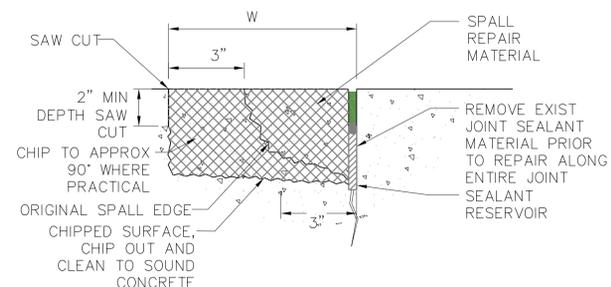


NRMCA NOMOGRAPH FOR ESTIMATING EVAPORATION RATE ON THE BASIS OF MENZEL FORMULA (PCA)¹

1. Kosmatka, S.H.; Kerkhoff, B.; and Panarese, W.C., Design and Control of Concrete Mixtures, Engineering Bulletin 001, 14th Edition, Portland Cement Association, Skokie, IL, 2002, p. 236.

TO USE THIS CHART:
 1. ENTER WITH AIR TEMPERATURE AND MOVE UP TO RELATIVE HUMIDITY;
 2. MOVE RIGHT TO CONCRETE TEMPERATURE;
 3. MOVE DOWN TO WIND VELOCITY;
 4. MOVE LEFT TO READ RATE OF EVAPORATION.

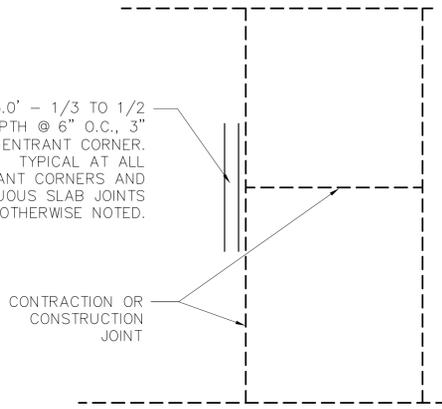
14 CONCRETE EVAPORATION CHART
 NTS



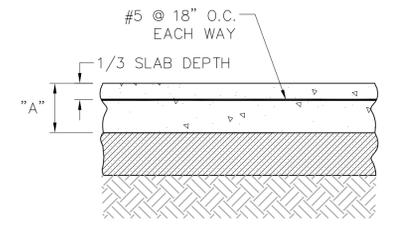
- NOTES:
 1. "W" INDICATES THE WIDTH OF THE LIMITS OF REPAIR.
 2. LOCATION OF REPAIR TO BE DETERMINED IN THE FIELD AND CLEARLY MARKED.
 3. ALL AREAS TO BE CLEAN OF LOOSE DEBRIS AND DUST PRIOR TO APPLICATION OF EPOXY BONDING AGENT, APPLY PER MANUFACTURER'S RECOMMENDATIONS.
 4. SPALL REPAIR MATERIAL AT THE EXIST JOINT AREA SHALL NOT BE ALLOWED TO TOUCH OR BOND TO TECH EXIST CONCRETE.

15 JOINT SPALL REPAIR @ EXIST RIGID PVMNT JOINT
 NTS

(2) #4 x 3.0' - 1/3 TO 1/2 SLAB DEPTH @ 6" O.C., 3" FROM RE-ENTRANT CORNER, TYPICAL AT ALL RE-ENTRANT CORNERS AND DISCONTINUOUS SLAB JOINTS UNLESS OTHERWISE NOTED.

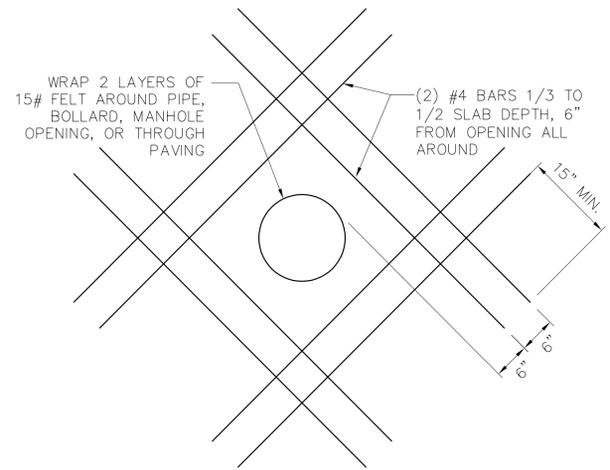


18 RE-ENTRANT JOINT
 NTS



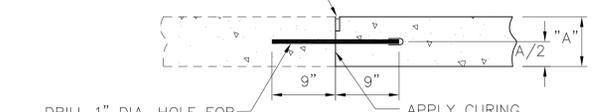
NOTES:
 1. SEE DETAIL 17 THIS SHEET FOR PAVEMENT INFORMATION

21 REINFORCING AT PCC PAVEMENT SECTION
 NTS



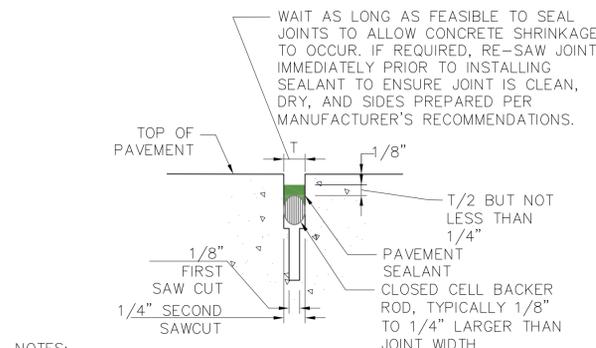
22 REINFORCEMENT AT OPENINGS
 NTS

EARLY ENTRY SAWCUT TO 1-1/4" DEEP MIN. CAULK JOINT W/SONOLASTIC SL 2 POLYURETHANE SEALANT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



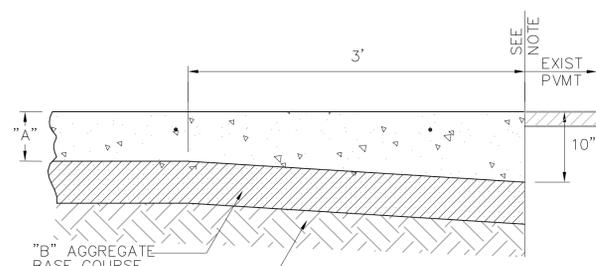
- NOTES:
 1. "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
 2. 3/4" SQUARE DOWELS W/DOWEL CLIPS BY PNA, MAY BE SUBSTITUTED. CONTRACTOR TO SUBMIT REQUEST TO ENGINEER FOR APPROVAL.

16 CONSTRUCTION JOINT AT EXISTING PAVEMENT
 NTS



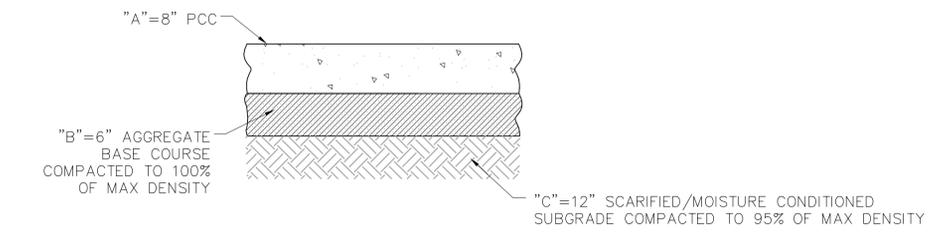
- NOTES:
 1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
 2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
 3. INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
 4. JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

19 CONCRETE JOINT DETAIL
 NTS



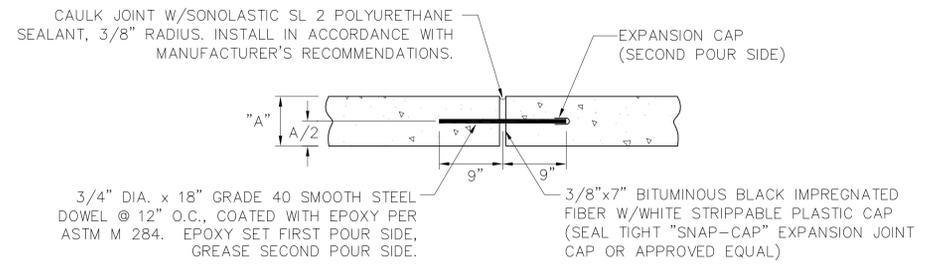
- NOTES:
 1. NOTE: WHEN PLACED ALONG EXISTING CURB, INSTALL BITUMINOUS FIBER & PER ISOLATION JOINT DTL 2 (NO DOWEL).
 2. "A", "B", AND "C" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.

23 THICKENED EDGE CONCRETE PAVEMENT
 NTS



- NOTES:
 1. PCC PAVEMENT SHALL BE CLASS AA AND CONSTRUCTED PER MAG SPECIFICATIONS SECTION 324.
 2. ABC SHALL BE CONSTRUCTED PER MAG SPECIFICATIONS SECTION 310.

17 PCC PAVEMENT SECTION
 NTS



- NOTES:
 1. "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
 2. 3/4" SQUARE DOWELS W/DOWEL CLIPS BY PNA, MAY BE SUBSTITUTED. CONTRACTOR TO SUBMIT REQUEST TO ENGINEER FOR APPROVAL.

20 ISOLATION JOINT
 NTS



- NOTES:
 1. "A" PER CONCRETE SECTION AND GEOTECHNICAL REPORT.
 2. PLUNGE CUT (BY HAND AS REQUIRED) ALL CONTRACTION JOINTS @ LOCATIONS ABUTTING STRUCTURES & CURBS.

24 CONTRACTION JOINT
 NTS

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MESA FIRE STATION NO. 203
 324 SOUTH ALMA SCHOOL ROAD

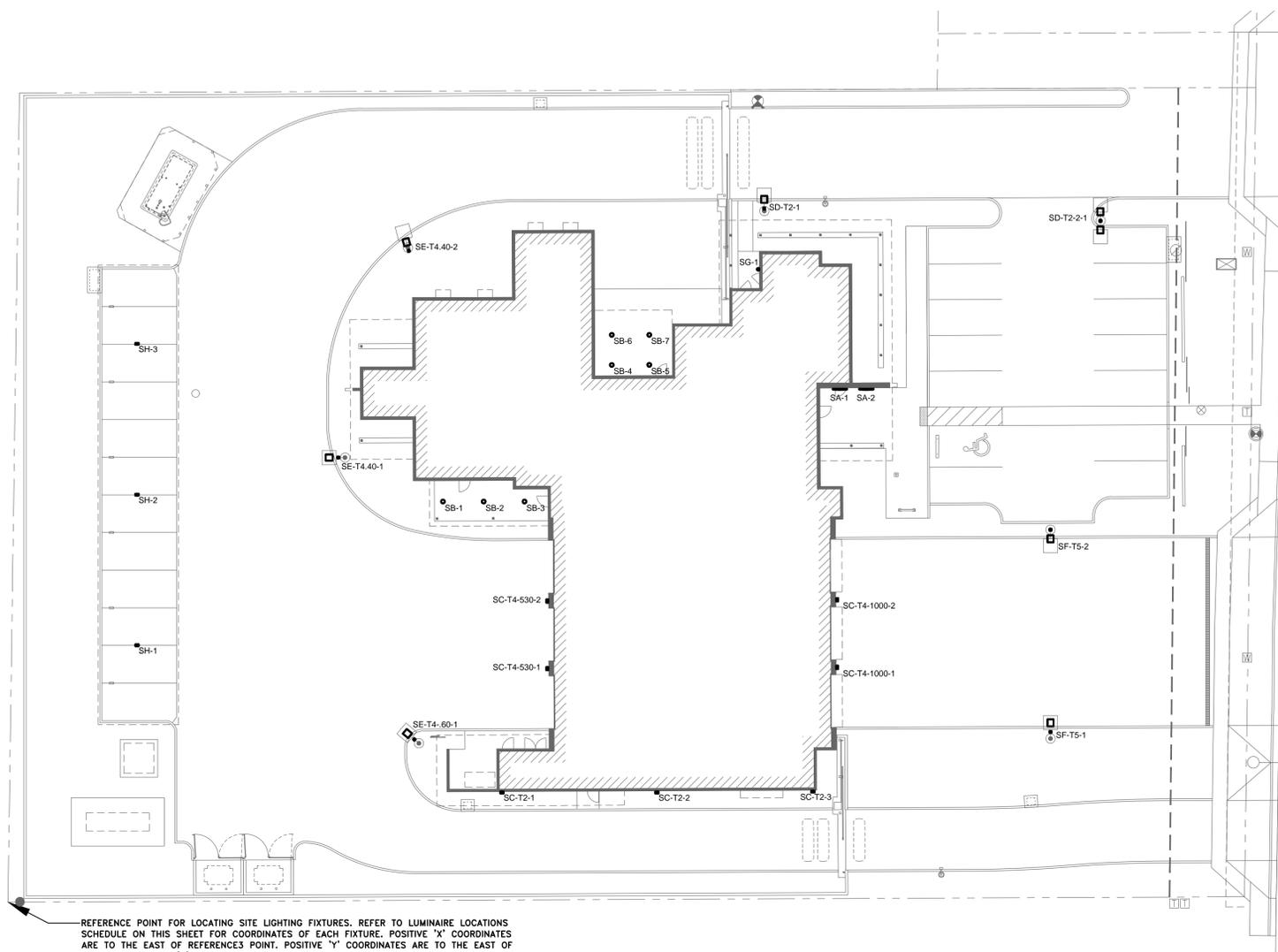
CONCRETE JOINTING
 DETAILS

DRAWING
 C7.0

SHEET
 OF

CATALOG NUMBER:

DATE: 10/25/14 0:22:41 1119-01\65CAD\CIVIL\SA14-SP-DT-41119.DWG



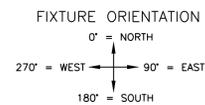
REFERENCE POINT FOR LOCATING SITE LIGHTING FIXTURES. REFER TO LUMINAIRE LOCATIONS SCHEDULE ON THIS SHEET FOR COORDINATES OF EACH FIXTURE. POSITIVE 'X' COORDINATES ARE TO THE EAST OF REFERENCE POINT. POSITIVE 'Y' COORDINATES ARE TO THE EAST OF REFERENCE POINT. 'Z' COORDINATES ARE VERTICAL. COORDINATE WITH ARCHITECTURAL DRAWINGS. FIXTURES SHALL BE LOCATED WITHIN 1 FOOT OF COORDINATES. MAKE MINOR ADJUSTMENTS IN FIELD TO COORDINATE WITH ARCHITECTURAL PLANS.



SITE LIGHTING FIXTURE PLAN

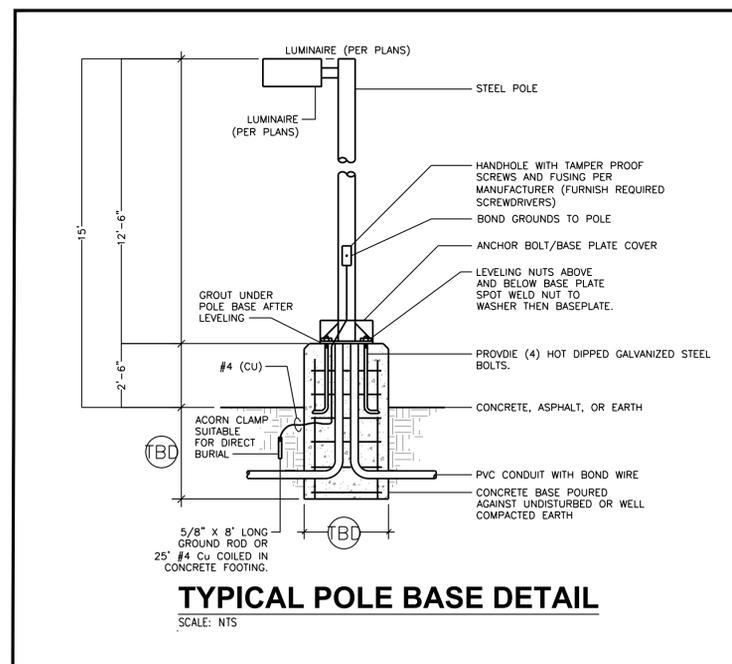
SCALE: 1" = 20'-0"

Luminaire Locations					
No.	Label	X	Y	Z	Orientation
1	SA	222.03	136.30	9.50	180.00
2	SA	229.06	136.30	9.50	180.00
1	SB	116.07	106.43	10.00	0.00
2	SB	126.95	106.43	10.00	0.00
3	SB	137.84	106.43	10.00	0.00
4	SB	161.13	142.72	10.00	0.00
5	SB	171.13	142.75	10.00	0.00
6	SB	161.13	150.70	10.00	0.00
7	SB	171.13	150.70	10.00	0.00
1	SC-T4-530	144.19	62.04	15.00	270.00
2	SC-T4-530	144.19	79.99	15.00	270.00
1	SC-T4-1000	221.04	62.39	15.00	90.00
2	SC-T4-1000	221.04	80.34	15.00	90.00
1	SC-T2	131.83	29.12	10.00	180.00
2	SC-T2	173.19	29.12	10.00	180.00
3	SC-T2	214.79	29.34	10.00	180.00
1	SD-T2-2	291.70	180.58	15.00	0.00
1	SD-T2	202.50	184.26	15.00	0.00
1	SE-T4.40	88.14	118.11	15.00	270.00
2	SE-T4.40	106.94	173.01	15.00	344.88
1	SE-T4-60	108.43	43.24	15.00	310.36
1	SF-T5	278.23	45.22	15.00	15.00
2	SF-T5	278.23	98.96	15.00	180.00
1	SG	202.37	168.14	8.00	270.00
1	SH	34.43	68.24	8.90	90.00
2	SH	34.43	108.24	8.90	90.00
3	SH	34.43	148.32	8.90	90.00



GENERAL NOTES:

1. FIXTURE DESIGNATIONS CONSIST OF FIXTURE TYPE (LETTERS) AND FIXTURE NUMBER. THE NUMBER CORRESPONDS TO THE FIXTURE LOCATIONS SCHEDULE ON THIS SHEET. REFER TO THE SCHEDULE FOR LOCATION, ORIENTATION AND MOUNTING HEIGHT OF FIXTURE.



TYPICAL POLE BASE DETAIL

SCALE: NTS

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ENGINEERING, L.L.C.
3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202
DRAWN BY: SM CHECKED BY: SM JOB NUMBER: 14295

Call or text me for working days before engine installation
ARIZONA 811
Arizona Blue Stakes
One P. 1.1 or 1.800.574.0177 (T811.888)
in Maricopa County (602) 293-1300

35191
SHELDON R. MCINNELLY
Oct 23, 2014
Arizona State Seal
EXP. 9/30/15

DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

F165 AC
PROJ. NO. C10127
DR. NO. 2014-00541

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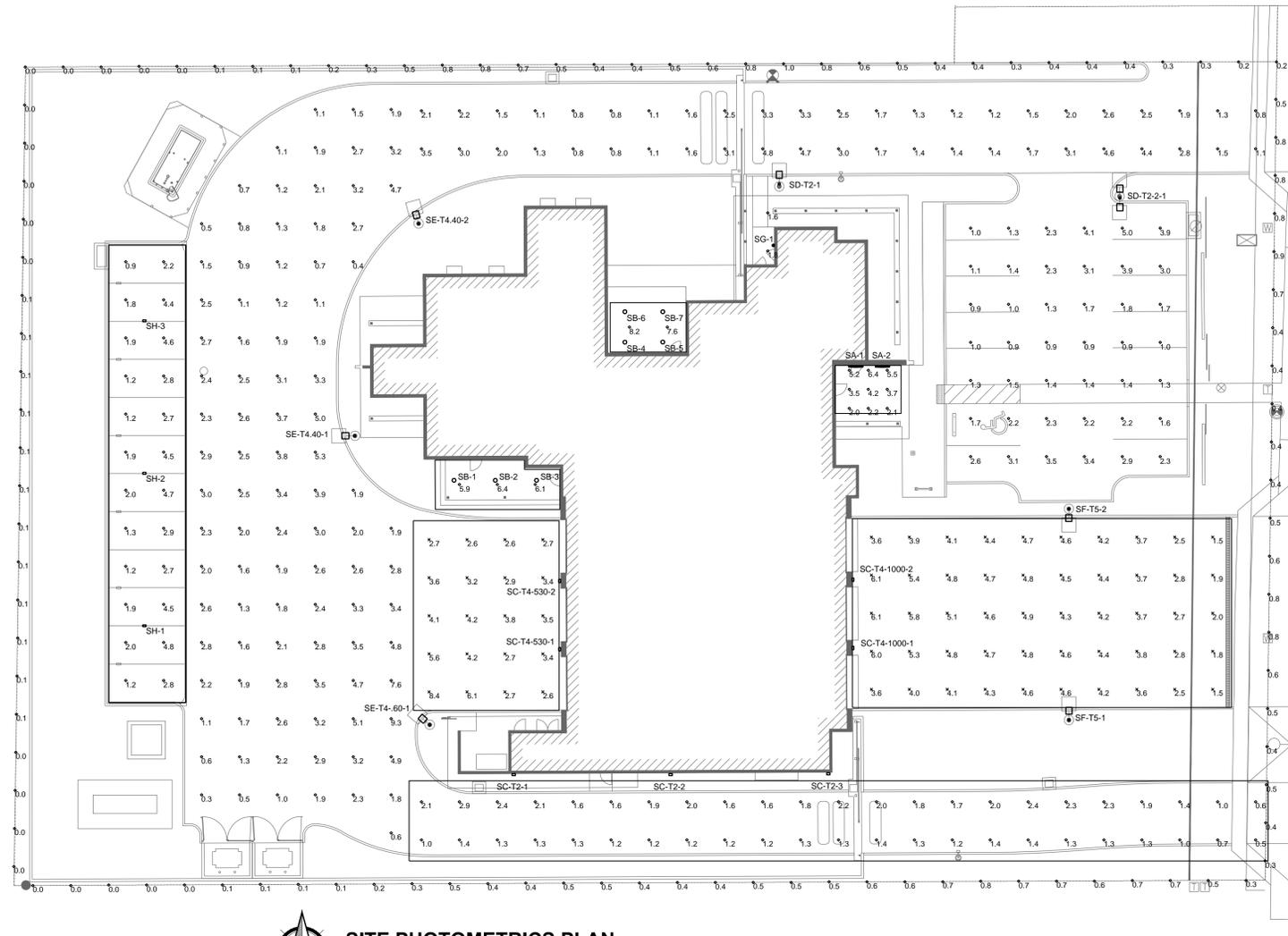
CITY OF MESA
ENGINEERING DEPARTMENT
MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

SITE FIXTURE PLAN
E1.1P

SHEET OF CATALOG NUMBER:

GENERAL NOTES:

1. FIXTURE DESIGNATIONS CONSIST OF FIXTURE TYPE (LETTERS) AND FIXTURE NUMBER. THE NUMBER CORRESPONDS TO THE FIXTURE LOCATIONS SCHEDULE ON THIS SHEET. REFER TO THE SCHEDULE FOR LOCATION, ORIENTATION AND MOUNTING HEIGHT OF FIXTURE.



SITE PHOTOMETRICS PLAN
SCALE: 1" = 20'-0"

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
—	SA	2	BEGA Converted by LUMCat V 27.08.2013 / H.R.		4437	LED 39.6W	1	BE8111.IES	1526	0.9	47
○	SB	7	Kenall Manufacturing	Millenium Round	MR13FFL-PP-MW-20L40K-DV	LED: QTY 9, Cree XPE HEW, 4000K	9	MR13FFL-PP-MW-20L40K-DV.ies	1204985	0.9	22.381
□	SC-T2	3	Lithonia Lighting	DSXW1 LED 10C 700 40K T4M MVOLT	DSXW1 LED WITH 1 LIGHT ENGINE, 10 LED's, 700mA DRIVER, 4000K LED, TYPE 4 MEDIUM OPTIC	LED	1	DSXW1_LED_10C_700_40 K_T4M_MVOLT.ies	2272.059	0.9	27
□	SC-T4-530	2	Lithonia Lighting	DSXW1 LED 20C 530 40K T4M MVOLT	DSXW1 LED WITH 2 LIGHT ENGINES, 20 LED's, 530mA DRIVER, 4000K LED, TYPE 4 MEDIUM OPTIC	LED	1	DSXW1_LED_20C_530_40 K_T4M_MVOLT.ies	3605.066	0.9	36
□	SC-T4-1000	2	Lithonia Lighting	DSXW1 LED 20C 1000 40K TFTM MVOLT	DSXW1 LED WITH 2 LIGHT ENGINES, 20 LED's, 1000mA DRIVER, 4000K LED, TYPE FORWARD THROW MEDIUM OPTIC	LED	1	DSXW1_LED_20C_1000_40K_TFTM_MVOLT.ies	5886.356	0.9	75
□	SD-T2	1	Lithonia Lighting	DSX1 LED 30C 1000 40K T2M MVOLT HS	DSX1 LED WITH (1) 30 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1050mA WITH HOUSE SIDE SHIELD	LED	1	DSX1_LED_30C_1000_40 K_T2M_MVOLT_HS.ies	6992.572	0.9	105
□	SD-T2-2	1	Lithonia Lighting	DSX1 LED 30C 1000 40K T2M MVOLT HS	DSX1 LED WITH (1) 30 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1050mA WITH HOUSE SIDE SHIELD	LED	1	DSX1_LED_30C_1000_40 K_T2M_MVOLT_HS.ies	6992.572	0.9	210
□	SE-T4.40	2	Lithonia Lighting	DSX1 LED 40C 1000 40K T4M MVOLT HS	DSX1 LED WITH (2) 20 LED LIGHT ENGINES, TYPE T4M OPTIC, 4000K, @ 1050mA WITH HOUSE SIDE SHIELD	LED	1	DSX1_LED_40C_1000_40 K_T4M_MVOLT_HS.ies	8776.173	0.9	138
□	SE-T4.60	1	Lithonia Lighting	DSX1 LED 60C 1000 50K TFTM MVOLT	DSX1 LED WITH (2) 30 LED LIGHT ENGINES, TYPE TFTM OPTIC, 5000K, @ 1000mA	LED	1	DSX1_LED_60C_1000_50 K_TFTM_MVOLT.ies	19326.38	0.9	209
□	SF-T5	2	Lithonia Lighting	DSX1 LED 60C 1000 40K T5W MVOLT	DSX1 LED WITH (2) 30 LED LIGHT ENGINES, TYPE T5W OPTIC, 4000K, @ 1050mA	LED	1	DSX1_LED_60C_1000_40 K_T5W_MVOLT.ies	18503.46	0.9	209
□	SG	1	Kenall	FS548 Metlenum Freescale - Triangle LED	PROJECT: 548T-1LINEAR32		1	FS548T.ies.IES	2900	0.9	39
□	SH	3	Lithonia Lighting	DSXSC LED 10C 700 40K ASY MVOLT	DSX SURFACE CANOPY FIXTURE WITH 1 LIGHT ENGINE, 700mA DRIVER, 4000K LED's, ASY OPTIC.	LED	1	DSXSC_LED_10C_700_40 K_ASY_MVOLT.ies	2254.047	1	26

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
App Bay Entrance Apron	×	3.7fc	8.4 fc	2.6 fc	3.2:1	1.4:1	0.4:1
App Bay Exit Apron	×	4.1 fc	6.1 fc	1.5 fc	4.1:1	2.7:1	0.7:1
Clerestory	◇	3.9 fc	6.4 fc	2.0 fc	3.2:1	2.0:1	0.6:1
N.E. Ent.Canopy	◇	1.7 fc	1.8 fc	1.6 fc	1.1:1	1.1:1	0.9:1
N.Ent.Canopy	◇	7.9 fc	8.2 fc	7.6 fc	1.1:1	1.0:1	1.0:1
North Drive	◇	2.1 fc	4.8 fc	0.8 fc	6.0:1	2.6:1	0.4:1
Property Line	◇	0.4 fc	1.0 fc	0.0 fc	N/A	N/A	0.4:1
Public Parking	◇	2.0 fc	5.0 fc	0.9 fc	5.6:1	2.2:1	0.4:1
S Canopy	◇	6.1 fc	6.4 fc	5.9 fc	1.1:1	1.0:1	1.0:1
South Drive	◇	1.5 fc	2.9 fc	0.5 fc	5.8:1	3.0:1	0.5:1
West Parking-Drive	◇	2.5 fc	9.3 fc	0.3 fc	31.0:1	8.3:1	0.3:1



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DRAWN BY: SM CHECKED BY: SM JOB NUMBER: 14295



DRAWN BY: RAS
PROJECT MANAGER: GA
APPROVED BY: KWP

Perlman
Architects of Arizona
4808 N. 24th Street, Suite 800, Arizona 85016
480.951.5900 480.951.3045 f
perlmanaz.com

CITY OF MESA
ENGINEERING DEPARTMENT

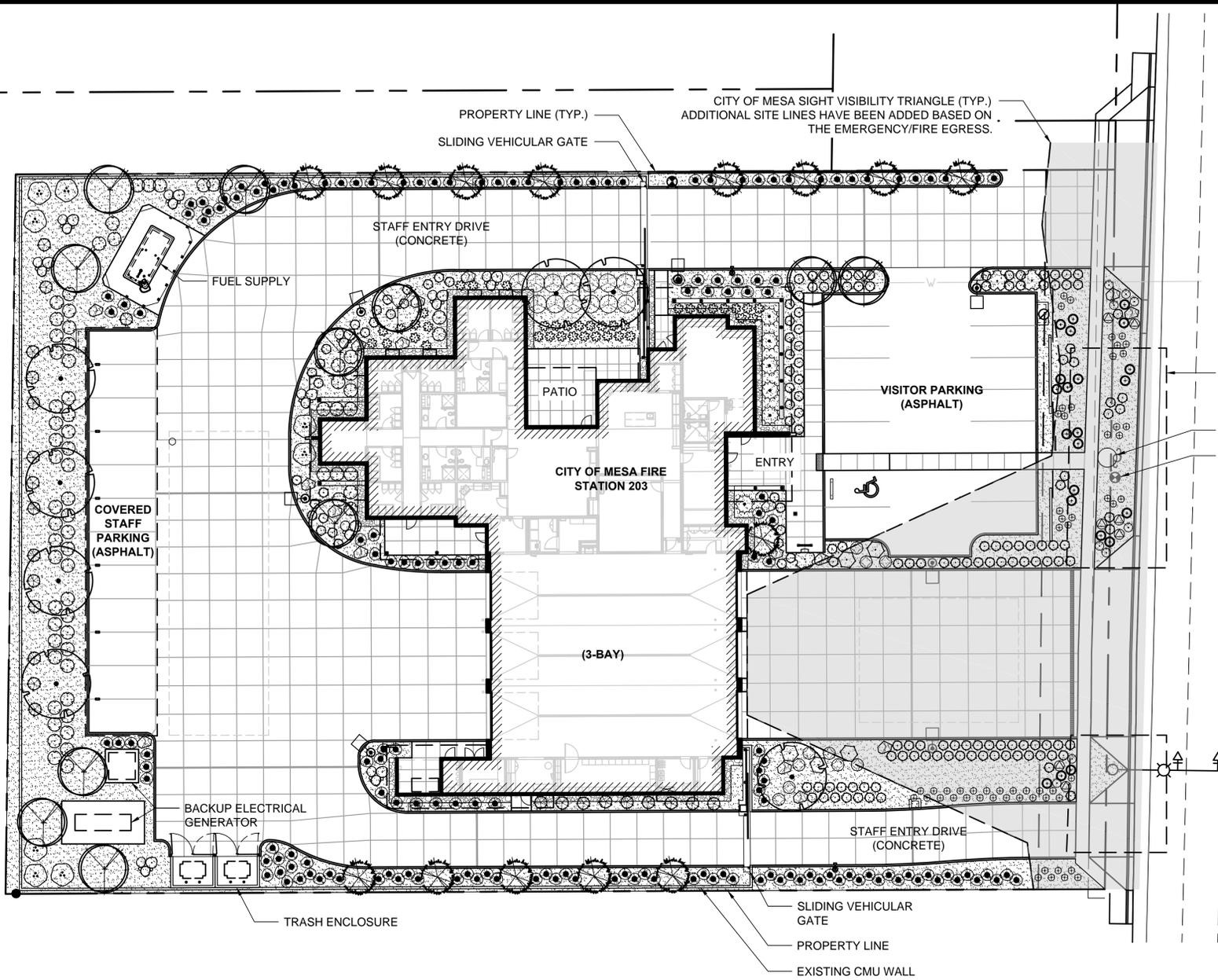
MESA FIRE STATION NO. 203
324 SOUTH ALMA SCHOOL ROAD

SITE PHOTOMETRIC PLAN

SHEET OF CATALOG NUMBER:

F165 AC
PROJ. NO. C10127
DR. NO. 2014-00541

DRAWING
E1.2P



PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	11	ACACIA ANEURA	MULGA	24" BOX	
	14	FOUQUIERIA SPLENDENS	OCOTILLO	12 CANES MIN.	
	7	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	36" BOX	(MULTI-TRUNK)
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	56	ARISTIDA PURPUREA	PURPLE THREEAWN	1 GAL	
	159	EUPHORBIA RIGIDA	YELLOW SPURGE	1 GAL	
	13	JUSTICIA SPICIGERA	MOHINTLI	5 GAL	
	10	LANTANA CAMARA 'DALLAS RED'	DALLAS RED LANTANA	5 GAL	
	5	LANTANA CAMARA 'GOLD MOUND'	GOLD MOUND LANTANA	5 GAL	
	9	MELAMPODIUM LEUCANTHUM	BLACKFOOT DAISY	1 GAL	
	166	MUHLENBERGIA CAPILLARIS 'REGAL MIST' TM	MUHLY	5 GAL	
	7	PENSTEMON EATONII	FIRECRACKER PENSTEMON	1 GAL	
	22	PENSTEMON PARRYI	PARRY'S BEARDTONGUE	1 GAL	
	70	RUELLIA BRITTONIANA	BLUE BELLS	5 GAL	
	8	TECOMA STANS	YELLOW BELLS	5 GAL	
CACTI/ACCENT	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	6	AGAVE VILMORINIANA	OCTOPUS AGAVE	5 GAL	
	39	ALOE VERA (YELLOW)	MEDICINAL ALOE	5 GAL	
	24	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL	
	3	LEMAIREOCEREUS MARGINATUS	MEXICAN FENCE POST	5 GAL	
	10	OPUNTIA FICUS-INDICA	INDIAN FIG CACTUS	5 GAL	
INERT MATERIALS	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	17	BOULDERS SURFACE SELECT	DECORATIVE BOULDERS	2 TON (3' X 4' X 3')	
INERT MATERIALS	QTY	BOTANICAL NAME	COMMON NAME	CONT	REMARKS
	885 SF	ANGULAR ROCK	3"-8" SCREENED - MIN, 12" THICK	EXPRESS GOLD	
	19,216 SF	ROCK MULCH	3/4" SCREENED - MIN, 2" THICK	EXPRESS GOLD	

TOTAL GROSS LANDSCAPE AREA: 72,830 SQ. FT. (1.67 ACRES)
 1. REQUIRED GROSS LANDSCAPE COVERAGE AREA: 50% (36,415 SQ. FT.)
 PROVIDED GROSS LANDSCAPE COVERAGE AREA: 27% (19,921 SQ. FT.)
 TOTAL NET SITE AREA: 72,830 SQ. FT. OR (1.67 ACRES)
 TOTAL NET LANDSCAPE: 19,921 SQ. FT. OR 27% OF TOTAL NET SITE

2. REQUIRED 1 TREE AND 6 SHRUBS PER 750 SQ. FT.
 REQUIRED: 98 TREES AND 588 SHRUBS
 PROVIDED: 18 TREES, 14 OCOTILLOS AND 607 SHRUBS

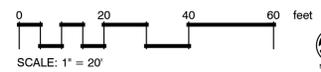
3. ARTERIAL STREET: (3 TREES AND 6 SHRUBS PER 100 LN FT OF STREET FRONTAGE)
 ALMA SCHOOL ROAD= 230 LINEAL FEET
 REQUIRED: 7 TREES AND 14 SHRUBS
 PROVIDED: 0 TREES AND 100+ SHRUBS

4. TREE SIZES: 36" OR LARGER (MIN. 25% OF THE TOTAL REQUIRED TREES)
 18 TREES TOTAL
 REQUIRED: 5 TREES
 PROVIDED: 7 TREES

24" BOX TREES OR LARGER (MIN. 50% OF THE TOTAL REQUIRED TREES)
 26 TREES TOTAL
 REQUIRED: 9 TREES
 PROVIDED: 18 TREES

5. INTERIOR PARKING LOTS: (1 TREE AND 6 SHRUBS FOR EVERY 8 SPACES OF PARKING) TOTAL PARKING LOT STALLS= 26 PARKING SPACES
 REQUIRED: 4 TREES AND 20 SHRUBS
 PROVIDED: 6 TREES AND 20+ SHRUBS

6. PLANT MATERIAL WITHIN FIRE STATION FOUNDATION BASE: (1 TREE PER 50 LINEAL FEET OF EXTERIOR WALL LENGTH) = 750 LINEAL FEET
 REQUIRED: 15 TREES
 PROVIDED: 8 TREES AND 1 OCOTILLO



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 51 West Third Street, Suite 400
 Tempe, Arizona 85281
 (480) 967-3343 Fax 966-9232

 Call 811 for utility location before any excavation. One 8-1-1 or 1-800-STREET (782-7146) in Maricopa County (928) 249-3100	Perlman Architects of Arizona 4808 N. 24th Street Ste. 100 Phoenix, Arizona 85016 480.951.5900 480.951.3045 f perlmanaz.com	
	CITY OF MESA ENGINEERING DEPARTMENT MESA FIRE STATION NO. 203 324 SOUTH ALMA SCHOOL ROAD	
	LANDSCAPE PLAN	
	DRAWN BY: CF PROJECT MANAGER: JM APPROVED BY: WC	SHEET OF



PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT
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	22	PENSTEMON PARRYI	PARRY'S BEARDTONGUE	1 GAL
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INERT MATERIALS	QTY	BOTANICAL NAME	COMMON NAME	CONT
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	19,216 SF	ROCK MULCH	3/4" SCREENED - MIN, 2" THICK	EXPRESS GOLD

CITY OF MESA PLANTING REQUIREMENTS AND QUANTITIES

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2. REQUIRED 1 TREE AND 6 SHRUBS PER 750 SQ. FT.
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 PROVIDED: 18 TREES, 14 OCOTOILLOS AND 607 SHRUBS

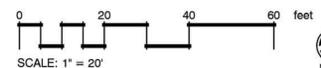
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 18 TREES TOTAL
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 PROVIDED: 7 TREES

24" BOX TREES OR LARGER (MIN. 50% OF THE TOTAL REQUIRED TREES)
 26 TREES TOTAL
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5. INTERIOR PARKING LOTS: (1 TREE AND 6 SHRUBS FOR EVERY 8 SPACES OF PARKING) TOTAL PARKING LOT STALLS= 26 PARKING SPACES
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6. PLANT MATERIAL WITHIN FIRE STATION FOUNDATION BASE: (1 TREE PER 50 LINEAL FEET OF EXTERIOR WALL LENGTH) = 750 LINEAL FEET
 REQUIRED: 15 TREES
 PROVIDED: 8 TREES AND 1 OCOTILLO



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	CITY OF MESA ENGINEERING DEPARTMENT MESA FIRE STATION NO. 203 324 SOUTH ALMA SCHOOL ROAD	
	LANDSCAPE PLAN	DRAWING
DRAWN BY: CF PROJECT MANAGER: JM APPROVED BY: WC F185 AC PROJ. NO. C10127 DR. NO. 2014-00541	SHEET OF	CATALOG NUMBER:

PLANT PALETTE - MESA FIRE STATION 203

BENCHMARK:
BRASS TAG ON T.C. AT N.E. COR.
OF THE INTERSECTION OF S.
STAPLEY DR. AND E. BROADWAY RD.
ELEVATION=1233.57 (C.O.M. DATUM)

TREES



1 MULGA ACACIA
-ACACIA ANEURA
24" BOX



2 SOUTHERN LIVE OAK
-QUERCUS VIRGINIANA
36" BOX
MULTI-TRUNK

SHRUBS



1 PURPLE THREEAWN
-ARISTIDA PURPUREA
1 GALLON



2 YELLOW SPURGE
-EUPHORBIA RIGIDA
1 GALLON



3 MOHINTLI
-JUSTICIA SPICIGERA
5 GALLON



4 LANTANA 'GOLD MOUND'
AND 'DALLAS RED'
-LANTANA CAMARA
5 GALLON



5 BLACKFOOT DAISY
-MELAMPODIUM LEUCANTHUM
1 GALLON



6 MUHLY
-MUHLENBERGIA CAPILLARIS
"REGAL MIST"™
5 GALLON



7 FIRECRACKER PENSTEMON
-PENSTEMON EATONII
1 GALLON



8 PARRY'S BEARDTONGUE
-PENSTEMON PARRYI
1 GALLON



9 BLUE BELLS
-RUELLIA BRITTONIANA
5 GALLON

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	CITY OF MESA ENGINEERING DEPARTMENT MESA FIRE STATION NO. 203 324 SOUTH ALMA SCHOOL ROAD	
	PLANT PALETTE	DRAWING
	SHEET 1 of 2	CATALOG NUMBER:

PLANT PALETTE - MESA FIRE STATION 203

BENCHMARK:
BRASS TAG ON T.C. AT N.E. COR.
OF THE INTERSECTION OF S.
STAPLEY DR. AND E. BROADWAY RD.
ELEVATION=1233.57 (C.O.M. DATUM)



10 **YELLOW BELLS**
-TECOMA STANS
5 GALLON

CACTI/ACCENTS



1 **OCTOPUS AGAVE**
-AGAVE VILMORNIANA
5 GALLON



2 **MEDICINAL ALOE**
-ALOE VERA
5 GALLON



3 **OCOTILLO**
-FOQUIERIA SPLENDENS
12 CANES MINIMUM



4 **RED YUCCA**
-HESPERALOE PARVIFLORA



5 **MEXICAN FENCE POST**
-LEMAIREOCEREUS MARGINATUS
5 GALLON



6 **INDIAN FIG CACTUS**
-OPUNTIA FICUS-INDICA
5 GALLON

DATE: 10/2/14 N:\PROJECTS\2014\145384 MESA FIRE STATION 203\3. DESIGN\3. CAD\2. XREFS\CLIENT\314029-CD-TBLK_36X24 -CONSULT.DWG

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	DRAWN BY: CF PROJECT MANAGER: JM APPROVED BY: WC	DRAWING
	F185 AD PROJ. NO. C10127	SHEET 2 of 2