GENERAL NOTES

- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTORS SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE
- ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 4. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR
- THE SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED
- 7. THE SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWING MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH
- ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORK TO ALERT OF ANY DANGEROUS

DRIVING DIRECTIONS:

7668 WARREN PKWY, FRISCO, TX 75034, GET ON DALLAS NORTH TOLLWAY N FROM MCCANDLESS WAY AND DALLAS PKWY, HEAD NORTH TOWARD MCCANDLESS WAY, TURN RIGHT TOWARD MCCANDLESS WAY, TURN LEFT TOWARD MCCANDLESS WAY, TURN RIGHT AT THE 1ST CROSS STREET ONTO MCCANDLESS WAY, TURN RIGHT ONTO DALLAS PKWY, TAKE THE DALLAS PKWY N RAMP ON THE LEFT, TOLL ROAD, MERGE ONTO DALLAS NORTH TOLLWAY N, TOLL ROAD, FOLLOW S DALLAS PKWY AND W FRONTIER PKWY TO YOUR DESTINATION, CONTINUE ONTO S DALLAS PKWY, CONTINUE STRAIGHT ONTO N DALLAS PKWY, TURN RIGHT ONTO W FRONTIER PKWY, TURN LEFT ONTO PRAIRIE XING, TURN RIGHT ONTO BERKSHIRE LN, TURN RIGHT, DESTINATION WILL BE ON THE LEFT, 1240 W FRONTIER PKWY, PROSPER, TX 75078

T--Mobile

NEW SITE BUILD

PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

T-MOBILE SITE NUMBER

DA03931D

SITE ADDRESS

1240 W FRONTIER PKWY PROSPER, TX 75078 **COLLIN COUNTY**

BUILDING CODES

- INTERNATIONAL BUILDING CODE, 2015 EDITION AS ADOPTED BY LOCAL JURISDICTION.
- NATIONAL ELECTRICAL CODE, 2017 EDITION AS ADOPTED BY LOCAL JURISDICTION.
- INTERNATIONAL MECHANICAL CODE, 2015 EDITION AS ADOPTED BY LOCAL JURISDICTION.
- INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION AS ADOPTED BY LOCAL JURISDICTION.

ENLARGED VICINITY MAP 289 County Road 83 (281) 289 Prosper, TX, 75078-8569 287 289 Dallas Mesqu 289 (67) W 1st St

APPROVED FOR CONSTRUCTION

PROPERTY OWNER OR REP LAND USE PLANNER NETWORK T-MOBILE BACKHAUI

CONSTRUCTION MANAGER

SHEET INDEX

OPERATIONS

TITLE SHEET (COVER PAGE)

OVERALL SITE PLAN ENLARGED SITE PLAN

EQUIPMENT COMPOUND PLAN

ELEVATION & ANTENNA LAYOUT

C-5RFDS PLUMBING DIAGRAM

EQUIPMENT SPEC SHEET

EQUIPMENT SPEC SHEET

EQUIPMENT SPEC SHEET

EQUIPMENT SPEC SHEET

EQUIPMENT SPEC SHEET EQUIPMENT SPEC SHEET

F-1POWER PLAN

ELECTRICAL ONE-LINE DIAGRAM

GROUNDING PLAN

G-2GROUNDING DETAILS

GROUNDING DETAILS

CMU WALL DESIGN

PAD DETAILS

MASONRY NOTES

PROJECT SUMMARY:

SITE TYPE

EXISTING 99' LICHT POLE WITH EXISTING RELATED UNMANNED COMMUNICATION EQUIPMENT AT BASE OF TOWER

SITE INFORMATION

33.25853629° LONG: -96.803366 633' AMSL ELEV: JURISDICTION: COLLIN COUNTY OCCUPANCY: COLO UNMANNED CONSTRUCTION TYPE: LIGHT POLE

APPLICANT

T-MOBILE DUKE BRIDGES CAMPUS 7668 WARREN PARKWAY FRISCO, TX 75034

LANDLORD

TOWN OF PROSPER 250 WEST FIRST STREET PROSPER, TX 75078 CONTACT: CHUCK SPRINGER

CONTRACTORS:

A&E CONTRACTOR

ALLPRO CONSULTING GROUP, INC. 9221 LYNDON B. JOHNSON FREEWAY, SUITE 204 DALLAS, TX 75243 CONTACT: SHIQIANG ZHANG, P.E. OFFICE: 972-231-8893 FAX: 866-364-8375

TEXAS ONE CALL

CONTRACTOR TO CALL 48 HOURS BEFORE DIGGING! PHONE: 800-545-6005 INDEPENDENT LOCATORS TO BE USED ON ALL SITES



DUKE BRIDGES CAMPUS 7668 WARREN PARKWAY FRISCO, TX 75034 0FFICE: (972) 464-3510



21-0860

DR/TS

DRAWN BY:

CHECKED BY: S7

		REVISIONS	
NO	DATE	DESCRIPTION	BY
		PRELIM CD	DR
0	01/24/23	FINAL CD	TS



9221 LYNDON B JOHNSON FWY IITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGI.COM FIRM NO. F-8242



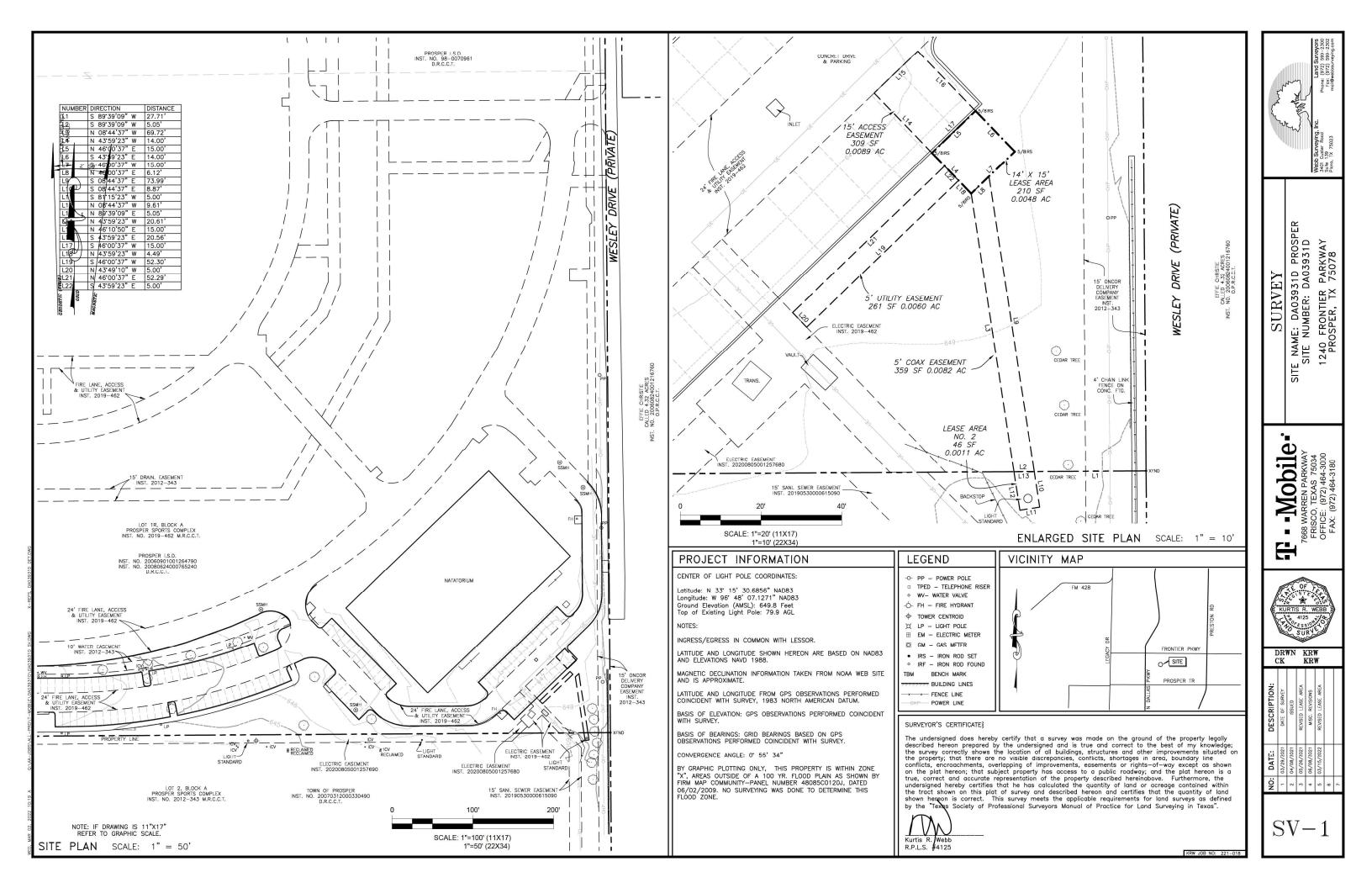
DA03931D

PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

TITLE SHEET

T-1



COMMENCING at a chiseled "x" set in concrete found for the southeast corner of said Lot 1R, also being the most easterly northeast corner of Lot 2. Block A. of Prosper Sports Complex an addition to the Town of Prosper, Collin County, Texas, according to the plat thereof recorded in Volume 2012-343.

THENCE along the south line of said Lot 1R, same being the most easterly north line of said Lot 2. South 89 degrees 39 minutes 09 seconds West, a distance of 32.76 feet to a Point;

THENCE through the interior of said Lot 1R. North 08 degrees 44 minutes 37 seconds West, a distance of 69.72 feet to a 5/8" iron rod set with cap marked "WEBB-4125" for the POINT OF BEGINNING hereof:

THENCE continuing through the interior of said Lot 1R the

- 1. North 43 degrees 59 minutes 23 seconds West, a distance of 14.00 feet to a 5/8" iron rod set with cap marked
- 2. North 46 degrees 00 minutes 37 seconds Fast, a distance of 15.00 feet to a 5/8" iron rod set with cap marked "WFRR-4125"
- 3. South 43 degrees 59 minutes 23 seconds East, a distance of 14.00 feet to a 5/8" iron rod set with cap marked "WFBB-4125":
- 4. South 46 degrees 00 minutes 37 seconds West, a distance of 15.00 feet to the POINT OF BEGINNING hereof and containing 0.0048 acres or 210 square feet of land, more

15' ACCESS FASEMENT

BEING a tract of land situated in the Collin County School Land Survey, Abstract No. 147, Collin County, Texas, also being situated in Lot 1R, Block A, Replat Prosper Sports Complex, an addition to the Town of Prosper, Collin County, Texas, according to the plat thereof recorded in Instrument No. 2019—462, Map Records, Collin County, Texas, and being out of and a portion of that certain tract of land conveyed to the Prosper Independent School District by Instrument No. 20060901001264790, corrected by Instrument No 20080624000765240, Deed Records, Collin County, Texas, and being more particularly described by metes and bounds as

COMMENCING at a chiseled "x" set in concrete found for the southeast corner of said Lot 1R, also being the most easterly northeast corner of Lot 2, Block A, of Prosper Sports Complex an addition to the Town of Prosper, Collin County, Texas, according to the plat thereof recorded in Volume 2012-343,

THENCE along the south line of said Lot 1R, same being the most easterly north line of said Lot 2, South 89 degrees 39 minutes 09 seconds West, a distance of 32.76 feet to a Point;

THENCE through the interior of said Lot 1R, the following two (2) courses:

- 1. North 08 degrees 44 minutes 37 seconds West, a distance of 69.72 feet to a 5/8" iron rod set with cap marked "WEBB-4125":
- 2. North 43 degrees 59 minutes 23 seconds West, a distance of 14.00 feet to the POINT OF BEGINNING hereof:

THENCE continuing through the interior of said Lot 1R the

- North 43 degrees 59 minutes 23 seconds West, a distance of 20.61 feet to a Point on the south line of an existing 24' fire lane, access, and utility easement as dedicated by said Replat Prosper Sports Complex;
- 2. Along said 24' fire lane, access, and utility easement, North 46 degrees 10 minutes 50 seconds East, a distance of 15.00 feet to a Point;
- 3. South 43 degrees 59 minutes 23 seconds East, a distance of 20.56 feet to a Point:
- 4. South 46 degrees 00 minutes 37 seconds West, a distance of 15.00 feet to the POINT OF BEGINNING hereof and containing 0.0089 acres or 309 square feet of land, more

5' UTILITY EASEMENT

BEING a tract of land situated in the Collin County School Land Survey, Abstract No. 147, Collin County, Texas, also being situated in Lot 1R, Block A, Replat Prosper Sports Complex, an addition to the Town of Prosper, Collin County, Texas, according to the plat thereof recorded in Instrument No. 2019-462, Map Records, Collin County, Texas, and being out of and a portion of that certain tract of land conveyed to the Prosper Independent School District by Instrument No. 20060901001264790, corrected by Instrument No. 20080624000765240, Deed Records, Collin County, Texas, and being more particularly described by metes and bounds as

THENCE along the south line of said Lot 1R, same being the most easterly north line of said Lot 2, South 89 degrees 39 minutes 09 seconds West, a distance of 32.76 feet to a Point;

THENCE through the interior of said Lot 1R the following two

- 1. North 08 degrees 44 minutes 37 seconds West, a distance of 69.72 feet to a 5/8" iron rod set with cap marked
- 2. North 43 degrees 59 minutes 23 seconds West, a distance of 4.49 feet to the POINT OF BEGINNING hereof;

THENCE continuing through the interior of said Lot 1R the following four (4) courses:

- 1. South 46 degrees 00 minutes 37 seconds West, a distance of 52.30 feet to a Point on the northeast line of an existing electric easement as dedicated by said Replat Prosper Sports Complex:
- 2. Along said existing electric easement, North 43 degrees 49 minutes 10 seconds West, a distance of 5.00 feet to a
- North 46 degrees 00 minutes 37 seconds East, a distance of 52.29 feet to a Point;
- 4. South 43 degrees 59 minutes 23 seconds Fast, a distance of 5.00 feet to the POINT OF BEGINNING hereof and containing 0.0060 acres or 261 square feet of land, more

5' COAX EASEMENT

BEING a tract of land situated in the Collin County School Land Survey, Abstract No. 147, Collin County, Texas, also being situated in Lot 1R, Block A, Replat Prosper Sports Complex, an addition to the Town of Prosper, Collin County, Texas, according to the plat thereof recorded in Instrument No. 2019—462, Map Records, Collin County, Texas, and being out of and a portion of that certain tract of land conveyed to the Prosper Independent School District by Instrument No. 20060901001264790, corrected by Instrument No 20080624000765240, Deed Records, Collin County, Texas, and peing more particularly described by metes and bounds as

COMMENCING at a chiseled "x" set in concrete found for the southeast corner of said Lot 1R, also being the most easterly northeast corner of Lot 2, Block A, of Prosper Sports Complex an addition to the Town of Prosper, Collin County, Texas according to the plat thereof recorded in Volume 2012-343.

THENCE along the south line of said Lot 1R, same being the most easterly north line of said Lot 2. South 89 degrees 39 minutes 09 seconds West, a distance of 27.71 feet to the

THENCE continuing along the south line of said Lot 1R, same being the most easterly north line of said Lot 2. South 89 degrees 39 minutes 09 seconds West, a distance of 5.05 feet

THENCE through the interior of said Lot 1R the following three

- 1. North 08 degrees 44 minutes 37 seconds West, a distance of 69.72 feet to a Point:
- 2. North 46 degrees 00 minutes 37 seconds East, a distance
- South 08 degrees 44 minutes 37 seconds East, a distance of 73.99 feet to the POINT OF BEGINNING hereof and containing 0.0082 acres or 359 square feet of land, more

LEASE AREA #2

BEING a tract of land situated in the Collin County School Land Survey, Abstract No. 147, Collin County, Texas, also being situated in Lot 2, Block A, Prosper Sports Complex, an addition to the Town of Prosper, Collin County, Texas, according to the plat thereof recorded in Volume 2012—343, Map Records, Collin County, Texas, and being out of and a portion of that certain tract of land conveyed to the Town of Prosper by Instrument No. 20070312000330490. Deed Records, Collin County, Texas, and being more particularly described by metes and bounds as follows:

COMMENCING at a chiseled "x" set in concrete found for the southeast corner of Lot 1R, Block A, Replat Prosper Sports Complex, an addition to the Town of Prosper, Collin County, Texas, according to the plat thereof recorded in Instrument 2019-462, Map Records, Collin County, Texas, also being the most easterly northeast corner of said Lot 2:

THENCE along the south line of said Lot 1R, same being the most easterly north line of said Lot 2, South 89 degrees 39 minutes 09 seconds West, a distance of 27.71 feet to the POINT OF BEGINNING hereof:

THENCE through the interior of said Lot 2 the following three

- 1. South 08 degrees 44 minutes 37 seconds East, a distance of 8.87 feet to a Point:
- 2. South 81 degrees 15 minutes 23 seconds West, a distance of 5.00 feet to a Point;
- 3. North 08 degrees 44 minutes 37 seconds West, a distance

THENCE along the south line of said Lot 1R, same being the most easterly north line of said Lot 2, North 89 degrees 39 minutes 09 seconds East, a distance of 5.05 feet to the POINT OF BEGINNING hereof and containing 0,0011 acres or 46 square Surveyor's address to items relevant to survey as described in Report of Title prepared by US Title Solutions, 67571-TX2103-5039 effective date 03/15/2021

Easement by C. B. Shipley to Texas Power & Light Company, of Dallas, Texas, dated 11/19/1924 recorded 3/14/1925 in book

Right of Way by Virginia Shipley, a widow to Lone Star Gas Company, a Corporation, dated 8/15/1955 recorded 12/16/1955 in book 507 page 364. Does not affect the subject tract.

Easement by Prosper Independent School District to County of Collin, acting by and through Collin County Commissioners Court, dated 8/7/2000 recorded 9/6/2000 in Instrument No: 2000-0096880. Current right-of-way of Frontier Parkway; does not affect the subject tract.

Easement by William F. Ellis, Vice President Bank of America, N.A., Trustee of the Virginia C. Shipley Trust to TXU Gas Company, a corporation, dated 2/12/2002 recorded 4/4/2002 in Instrument No: 2002-0032402. Does not affect the subject tract.

Easement by William F. Ellis, Vice President Bank of America, N.A., Trustee, amnd Tommy Allen to CoServ Gas, Ltd., a Texas limited partnership, dated 3/6/2006 recorded 3/9/2006 in Instrument No: 20060309000306590. Does not affect the lease area, access easement, coax or utility easements shown hereon.

Easement by William F. Ellis, Vice President Bank of America N.A., Trustee, and Tommy Allen to CoServ Gas, Ltd., a Texas limited partnership, dated 3/6/2006 recorded 3/9/2006 in Instrument No: 20060309000306600. Does not affect the subject

Easement by Town of Prosper to Oncor Electric Delivery Company LLC, a Delaware limited liability company, dated 10/17/2017 recorded 11/27/2017 in Instrument No: 20171127001564720. Does not affect the subject tract

Easement by Prosper Independent School District to Grayson Collin Electric Cooperative, Inc., dated 7/28/2020 recorded 8/5/2020 in Instrument No :20200805001257680. Shown hereon; affects the utility easement shown hereon.

Prosper Sports Complex Lots 1 & 2, Block A dated 9/4/2012 recorded 9/20/2012 in Instrument No. 2012-343. Easements dedicated therein shown hereon.

Replat Prosper Sports Complex Lot 1R, Block A dated 6/27/2019 recorded 7/8/2019 in Instrument No. 2019-462. Easements dedicated therein shown hereon.

PROJECT INFORMATION

CENTER OF LIGHT POLE COORDINATES:

Latitude: N 33' 15' 30 6856" NAD83 Longitude: W 96* 48' 07.1271" NAD83 Ground Elevation (AMSL): 649.8 Feet Top of Existing Light Pole: 79.9 AGL

NOTES:

INGRESS/EGRESS IN COMMON WITH LESSOR.

LATITUDE AND LONGITUDE SHOWN HEREON ARE BASED ON NAD83

MAGNETIC DECLINATION INFORMATION TAKEN FROM NOAA WEB SITE

LATITUDE AND LONGITUDE FROM GPS OBSERVATIONS PERFORMED COINCIDENT WITH SURVEY, 1983 NORTH AMERICAN DATUM

BASIS OF ELEVATION: GPS OBSERVATIONS PERFORMED COINCIDENT

BASIS OF BEARINGS: GRID BEARINGS BASED ON GPS OBSERVATIONS PERFORMED COINCIDENT WITH SURVEY.

CONVERGENCE ANGLE: 0° 55' 34"

BY GRAPHIC PLOTTING ONLY. THIS PROPERTY IS WITHIN ZONE AREAS OUTSIDE OF A 100 YR. FLOOD PLAIN AS SHOWN BY FIRM MAP COMMUNITY-PANEL NUMBER 48085C0120J. DATED 06/02/2009. NO SURVEYING WAS DONE TO DETERMINE THIS FLOOD ZONE.

LEGEND

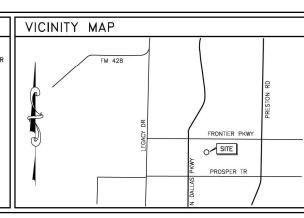
- -O- PP POWER POLE
- □ TPED TELEPHONE RISER
- WV- WATER VALVE
- -C- FH FIRE HYDRANT
- + TOWER CENTROID
- X LP LIGHT POLE
- ₩ EM ELECTRIC METER
- GM GAS MFTFR
- IRS IRON ROD SET IRF — IRON ROD FOUND

TBM BENCH MARK BUILDING LINES -×----×-- FENCE LINE

SURVEYOR'S CERTIFICATE?

conflicts, encroachments, overlapping of improvements, easements or rights-of-way except as shown on the plat hereon; that subject property has access to a public roadway, and the plat hereon is a true, correct and accurate representation of the property described hereinabove. Furthermore, the undersigned hereby certifies that he has calculated the quantity of land or acreage contained within the tract shown on this plat of survey and described hereon and certifies that the quantity of land shown hereon is correct. This survey meets the applicable requirements for land surveys as defined by the "Texas Society of Professional Surveyors Manual of Practice for Land Surveying in Texas".

R.P.L.S. #4125



POWER LINE

The undersigned does hereby certify that a survey was made on the ground of the property legally described hereon prepared by the undersigned and is true and correct to the best of my knowledge; the survey correctly shows the location of all buildings, structures and other improvements situated or the property; that there are no visible discrepancies, conflicts, shortages in area, boundary line

PARKWAY 75078

NAME: DA03931D PROSP TE NUMBER: DA03931D FRONTIER OSPER, TX 1240 PR(SITE

URVEY

 $\overline{\Omega}$

0 -Mobile



DRWN KRW CK KRW

SV-2

HE PROPOSED SITE IS LOCATED IN FLOOD ZONE X, AERA OF MINIMAL FLOOD HAZARD, PER FEMA MAP# 48085C0120J EFFECTIVE ON 06/02/09. IF A PROFESSIONAL CONSULTANT HAS FINDING OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC

SITE LAYOUT IS BASED ON ZONING DRAWINGS BY ALLPRO CONSULTING GROUP, INC ACGI#21-5315 DATED 03/23/22 AND SITE WALK BY ALLPRO CONSULTING GROUP, INC. ACGI#21-0857 DATED 03/23/21. IF ANY DISCREPANCY IS NOTICED BETWEEN THE ACTUAL SITE LAYOUT AND THESE DRAWINGS, PLEASE NOTIFY ALLPRO CONSULTING GROUP, INC. FOR A REDESIGN.

ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

- PROPOSED BURIED OR OVERHEAD UTILITIES MUST BE CONTAINED WITHIN A DEDICATED UTILITY EASEMENT. ALL EXISTING AND NEW UTILITY EASEMENTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. NO DIGGING OR TRENCHING SHALL BE ALLOWED WITHOUT PRIOR VERIFICATION OF EXISTING BURIED UTILITIES.
- 2. POWER & FIBER/TELCO SOURCES AND ROUTING TO BE FIELD
- 3. ALL UTILITY RUNS TO BE LOCATED WITHIN EASEMENT

NOTE: REFERENCE SURVEY BY WEBB SURVEYING, INC KRW JOB# 221-018 DATED 03/15/22. ALL PROPERTY LINES, UTILITIES AND EASEMENTS TO BE VERIFIED IN FIELD. DUE DILIGENCE SHALL BE DONE BY OTHERS BEFORE THE SITE IS BUILT AS SHOWN. IN CASE OF ANY CONFLICTS DUE TO PROPERTY LINES OR NEW EXPANSION ON AN EXISTING EASEMENTS OR DUE TO LANDLORD PREFERENCE FOR A DIFFERENT DESIGN, PLEASE CONTACT ALLPRO CONSULTING GROUP, INC FOR A REDESIGN BEFORE SITE IS BUILT.

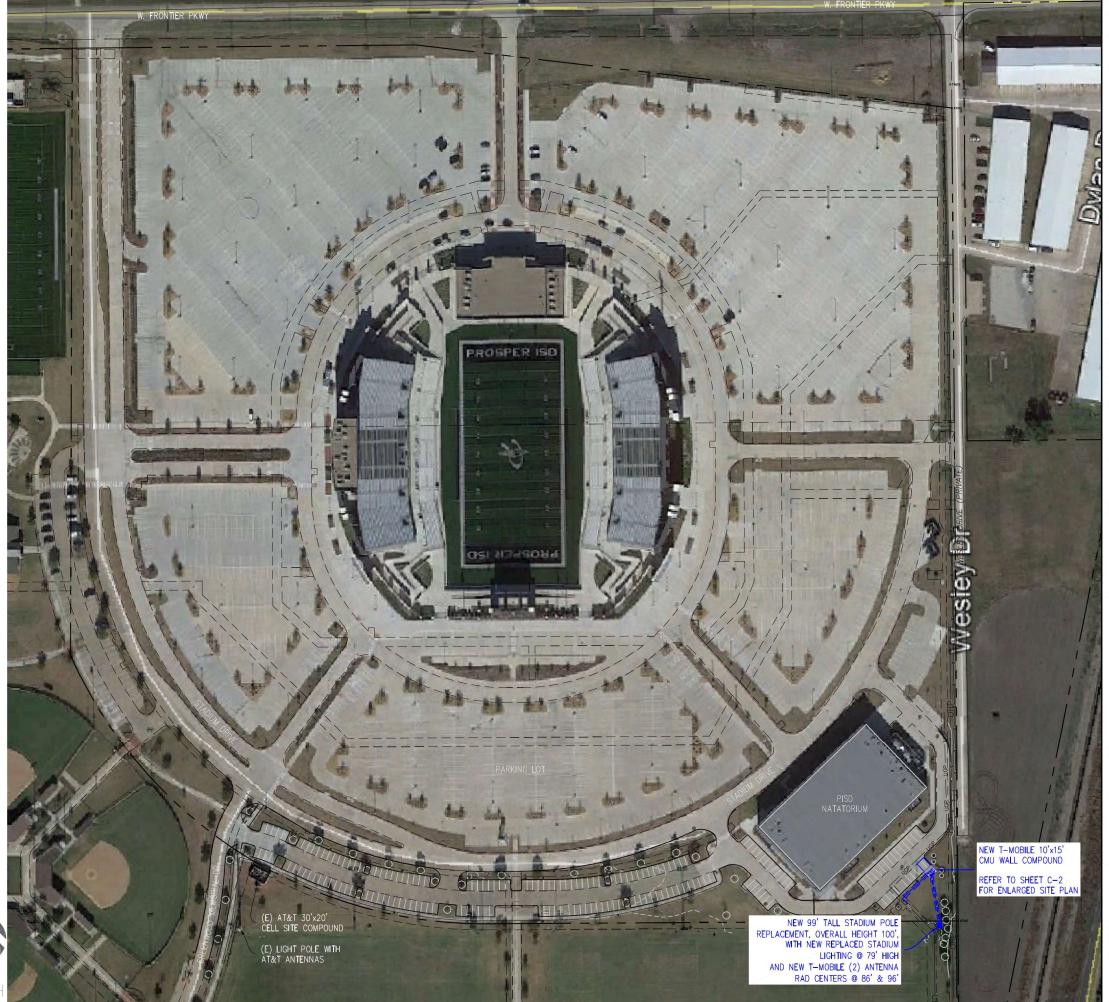
CMU WALL/FOUNDATION DESIGN IS BY ALLPRO CONSULTING GROUP, INC ACGI# 22-4294 DATED 12/19/22.

LEGEND

- -O- PP POWER POLE
- □ TPED TELEPHONE RISER
- · WV- WATER VALVE - FH - FIRE HYDRANT
- + TOWER CENTROID
- X LP LIGHT POLE ⊞ EM − ELECTRIC METER
- GM GAS METER
- IRS IRON ROD SET ○ IRF - IRON ROD FOUND
- BENCH MARK

BUILDING LINES

- FENCE LINE OHP POWER LINE







SUITE. 200 SAINT CHARLES, MO 63304 PHONE: 636-922-3400 600 E. JOHN CARPENTER FWY. STE 357 IRVING, TX 75062 PHONE: 972-717-780

21-0860

ACGI NO:

DRAWN BY: DR/TS

CHECKED BY:

REVISIONS DESCRIPTION A 01/10/23 PRELIM CD



9221 LYNDON B JOHNSON FWY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGI.COM FIRM NO. F-8242



DA03931D

PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE

OVERALL SITE PLAN

HE PROPOSED SITE IS LOCATED IN FLOOD ZONE X, AERA OF MINIMAL FLOOD HAZARD, PER FEMA MAP# 48085C0120J EFFECTIVE ON 06/02/09. IF A PROFESSIONAL CONSULTANT HAS FINDING OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC

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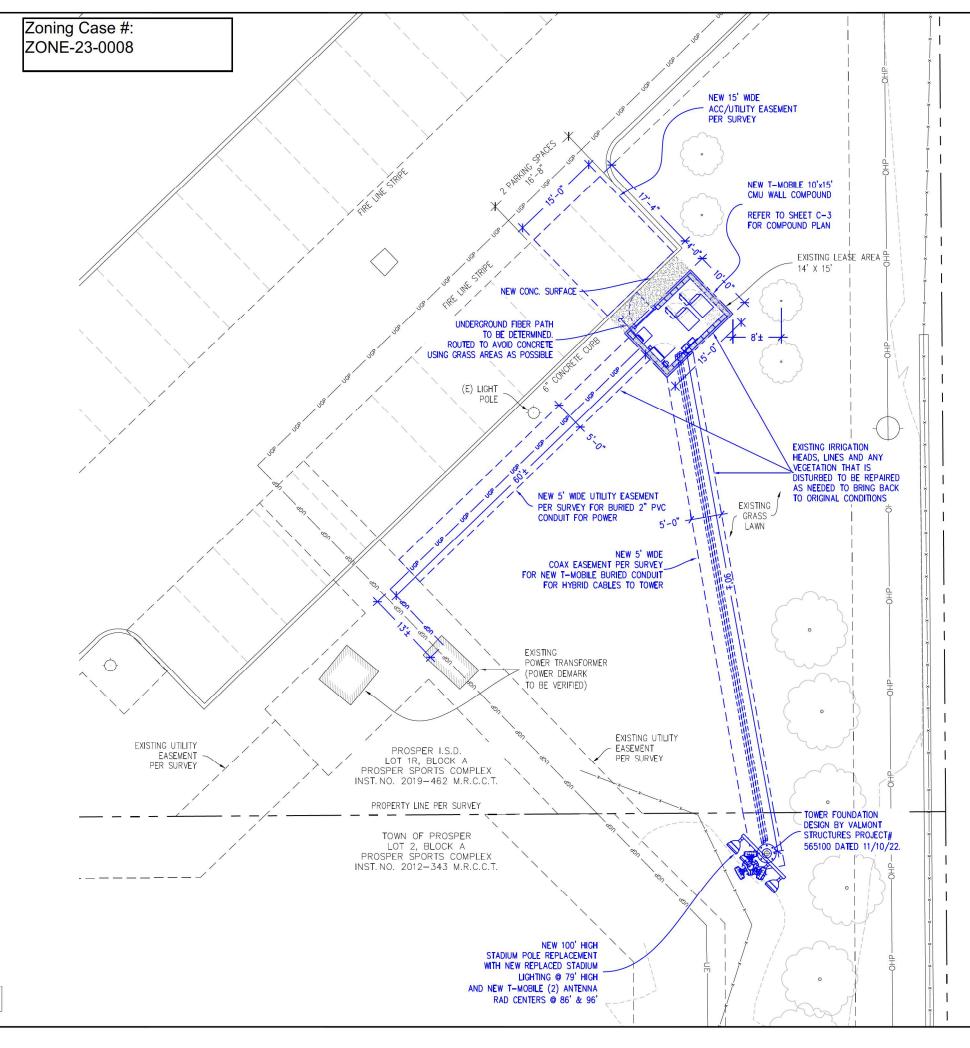
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CMU WALL/FOUNDATION DESIGN IS BY ALLPRO CONSULTING GROUP, INC ACGI# 22-4294 DATED 12/19/22.

LEGEND

- -O- PP POWER POLE
- □ TPED TELEPHONE RISER

WV- WATER VALVE - FH - FIRE HYDRANT + TOWER CENTROID X LP - LIGHT POLE ⊞ EM - ELECTRIC METER GM - GAS METER IRS - IRON ROD SET ○ IRF - IRON ROD FOUND ТВМ BENCH MARK BUILDING LINES - FENCE LINE OHP POWER LINE







SUITE 200 SAINT CHARLES, MO 63304 PHONE: 636-922-340 600 E. JOHN IRVING, TX 75062 PHONE: 972-717-780

21-0860

ACGI NO:

DRAWN BY: DR/TS

CHECKED BY:

REVISIONS DESCRIPTION A 01/10/23 PRELIM CD 0 01/24/23 FINAL CD



9221 LYNDON B JOHNSON FWY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGI.COM FIRM NO. F-8242



DA03931D

PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

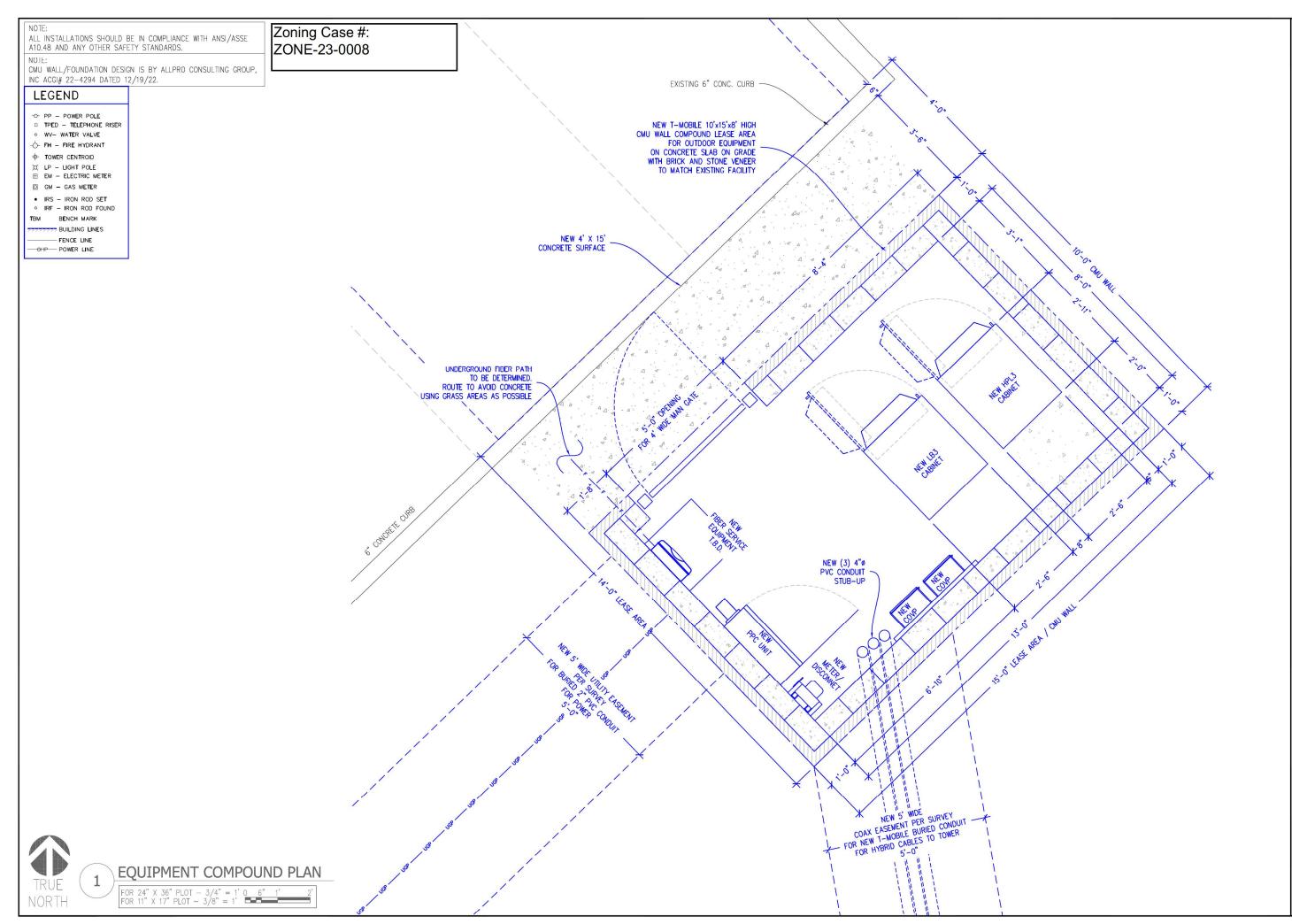
SHEET TITLE

ENLARGED SITE PLAN



ENLARGED SITE PLAN

FOR 24" X 36" PLOT - 1/8" = 1' FOR 11" X 17" PLOT - 1/16" = 1'



DUKE BRIDGES CAMPUS 7668 WARREN PARKWAY FRISCO, TX 75034 OFFICE: (972) 464-3510



5055 HIGHWAY "N" SUITE. 200 SAINT CHARLES, MO 63304 PHONE: 636-922-3400 600 E. JOHN CARPENTER FWY. STE 357 IRVING, TX 75062 PHONE: 972-717-7802

ACGI NO:

DRAWN BY: DR/TS

21-0860

CHECKED BY: SZ



9221 LYNDON B JOHNSON FWY SUITE 204, DALLAS, TX 75243 PHONE: 972–231–8893 FAX: 866–364–8375 WWW.ALLPROCGI.COM FIRM NO. F–8242



DA03931D

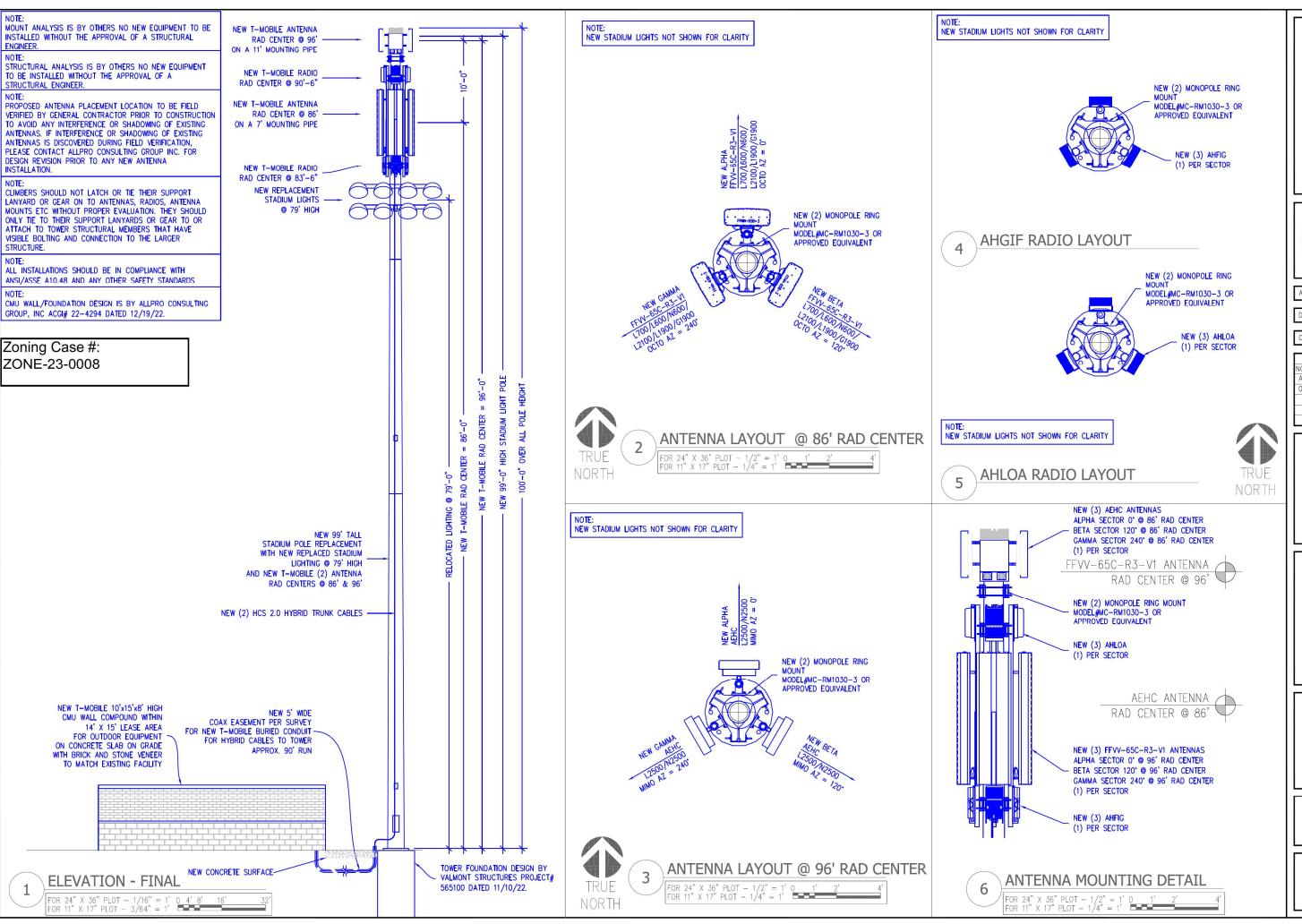
PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE

EQUIPMENT COMPOUND PLAN

SHEET NUMBE



DUKE BRIDGES CAMPUS 7668 WARREN PARKWAY FRISCO, TX 75034 0FFICE: (972) 464-3510 -



SUITE 200 SAINT CHARLES, MO 63304 PHONE: 636-922-340 600 E. JOHN IRVING, TX 75062 PHONE: 972-717-780

ACGI NO: 21-0860

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9221 LYNDON B JOHNSON FWY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGI.COM FIRM NO. F-8242

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DA03931D

PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE

ELEVATION & ANTENNA LAYOUT

		Section 1 - Site Inform	nation		
Site ID: DA03931	ID.	Site Name: DA03931D	Latitude: 33,258	53629	Coverage
Status: Final Version: 1		Site Class: Light Pole Site Type: Structure Non Building	Longitude: -96.8		Antenna
Project Type: Ma	arket Infill 9/2023 12:23:28 PM	Plan Year: 2021 Market: DALLAS TX	City, State: <uno Region: SOUTH</uno 	lefined>, TX	Antenna l
Approved By: M	ILIND.GANDHI6@T-MOBILE.COM 1/18/2023 12:23:28 PM	Vendor: Nokia Landlord: City of Prosper	Region. 300 In		Azimuth
	: MILIND.GANDHI6@T-MOBILE.COM	Cardior d. City of Prosper			M. Tilt
RAN Template: 5	6790EAH_SR_T	AL Tem	plate: 56790EAH_SR_T		Height (ft
Sector Count: 3	Antenna Count: 6	Coax Line Count: 0	TMA Count: 0	RRU Count: 6	Ports
		Proposed RAN Equip			Active Te
Enclosure	1	2	3	4	-
Enclosure Type					Dark Tecl
	[Tower Top Mount (Nokia)]	Purcell HPL3 600A Site Support Cabinet	(Ancillary Equipment (Nokia)	Purcell LB3 Battery Cabinet (4 strings)	
Radio	AHFII (x 3) N1900 N2100 (DARK) L1900 L2100 AHLOA (x3) N600 L800 L700				Antenna M
Baseband		ASIA ASIL ASIL			Azimuth
		L600 N600 N2500 N2500			M. Tilt
		L1900 N2'00 (DARK)			Height (ft
Baseband		ABIA (x2) ABIA ABIL		<u> </u>	Ports
Submodule		L1900 L2100 ABIL N800 ABIL (x 2) N1900			Active Te
		(N2100 (DARK)			Dark Tech
Power subsystem		N2500			Coverage
, , , , , , , , , , , , , , , , , , , ,				Batteries *Select size* Breakers *Select size* Rectifier Shelf *Select size*	Antenna Antenna
Transport System		CSR IXRe V2 (Gen2)			Azimuth
Hybrid Cable	Nakia HCS 2.0 Jumpar Cable	Extra Amplifier Module for Raycap	Nokia HCS 2.0 Trunk *Select		M. Tilt
System	Nokia HCS 2.0 Jumper Cable Airscale *Select Length* (x 9)	PowerPlus Voltage Booster	Length* (x2)		Height (ft
		Raycap PowerPlus S2 Voltage Booster w/ 2 Modules (Only compatible with HCS 1.0/2.0)			Ports
Junction Box			Nokia HCS 2.0 Tower Junction Box		Active Te
			(x2)		_
RAN Scope of World	k:				Dark Tech
	pdated with 86 RAD for Octo Antenna a		by RF and to match with CD.		
	updated with Purcell Cabinets and Rayo	cap voltage booster.			
	updated to swap ASIB to ASIA. updated to PH2Y config.				
	updated to PH21 config. Ipdated with the latest Voltage Booster M	Iodule (Delta Booster)			
1/25//2021 Market Infill POR	paared with the latest voltage booster is	rodule (Della Dooster)			
Equipment on top: (3) FFVV-65C- R3- (3) AHFIG + (3) AH (2) HCS 2.0 trunk (9) HCS 2.0 jumpe Note: (3) AHFIG + (3) AH (3) AEHC will conn	ILOA rs ILOA will connect to 1st HCS 2.0, which v	will need a Voltage booster.			
	: nk (MHz) Uplink (MHz)]]
729-734-699-704 Block - PCS Downl 1945-1965-1865-18 Block - AWS Down	link (MHz) Uplink (MHz) 155 1710-1715, 1735-1755 MHz) Uplink (MHz)				

	Sec	tor 1 (Propose	d) view from fr	ont (Note: the	images show view from behind)
Coverage Type	A - Outdoor Macr	0			
Antenna			1		2
Antenna Model	Commscope - FF	W-65C-R3-V1 (Oct	0)		(AEHC (Active Antenna - Massive MIMO))
Azimuth	0				0
M. Tilt	0				0
Height (ft)	86)				96)
Ports	P1	P2	P3	P4	P5
Active Tech	L700 L600	(L700) (L600) (N600)	L2100 L1900 N1900	(L2100) (L1900) (N1900)	N2500
Dark Tech			N2100	N2100	
	Sector 2 (Proposed) view from front (Note: th				images show view from behind)
Coverage Type	(A - Outdoor Macr	9			
Antenna	1				2
Antenna Model	Commscope - FFVV-65C-R3-V1 (Octo)				AEHC (Active Antenna - Massive MIMO)
Azimuth	120				[120]
M. Tilt	0				0
Height (ft)	86				96
Ports	P1	P2	P3	P4	P5
Active Tech	L700 L600 N600	L700 L600 N600	L2100 L1900 N1900	L2100 L1900 N1900	(N2500)
Dark Tech			(N2100)	N21 0 0	
	Sec	tor 3 (Propose	d) view from fr	ont (Note: the i	images show view from behind)
Coverage Type	A - Outdoor Macr	9			
Antenna			1		2
Antenna Model	Commscope - FF	(Commscope - FFVV-65C-R3-V1 (Octo)			(AEHC (Active Antenna - Massive MIMO)
Azimuth	240				240
M. Tilt	0				0
Height (ft)	86				96
Ports	P1	P2	P3	P4	P5
Active Tech	L700 L600	L700 L600	L2100 L1900	L2100 L1900	N2500)

N2100

N2100

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ACGI NO:

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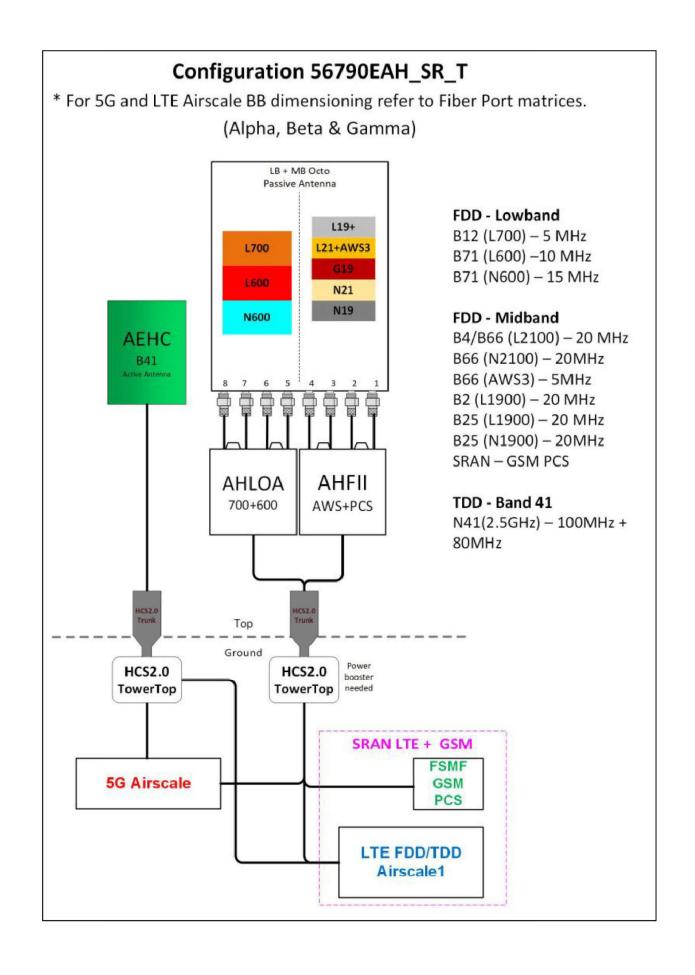
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SHEET TITLE

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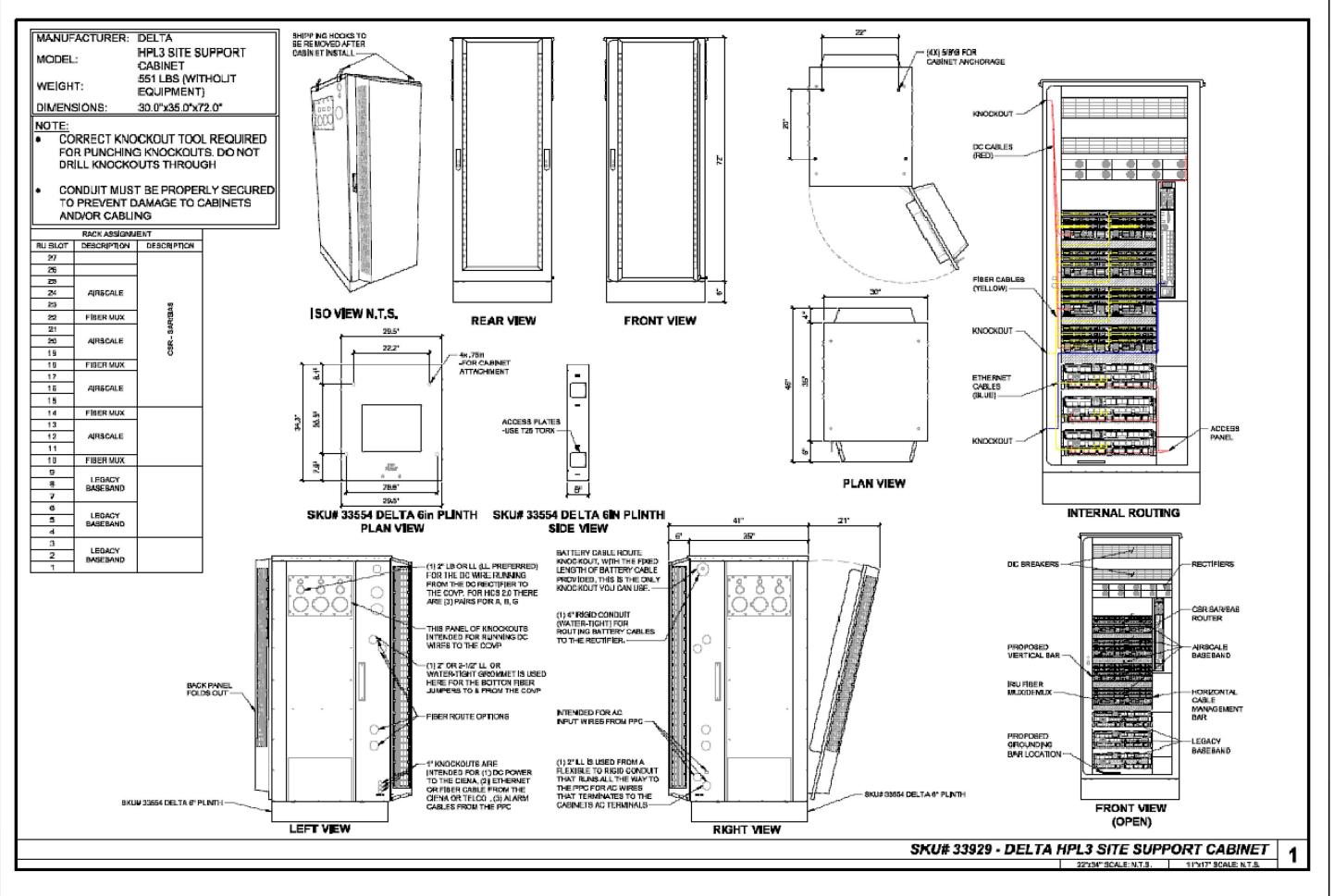
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RFDS PLUMBING DIAGRAM

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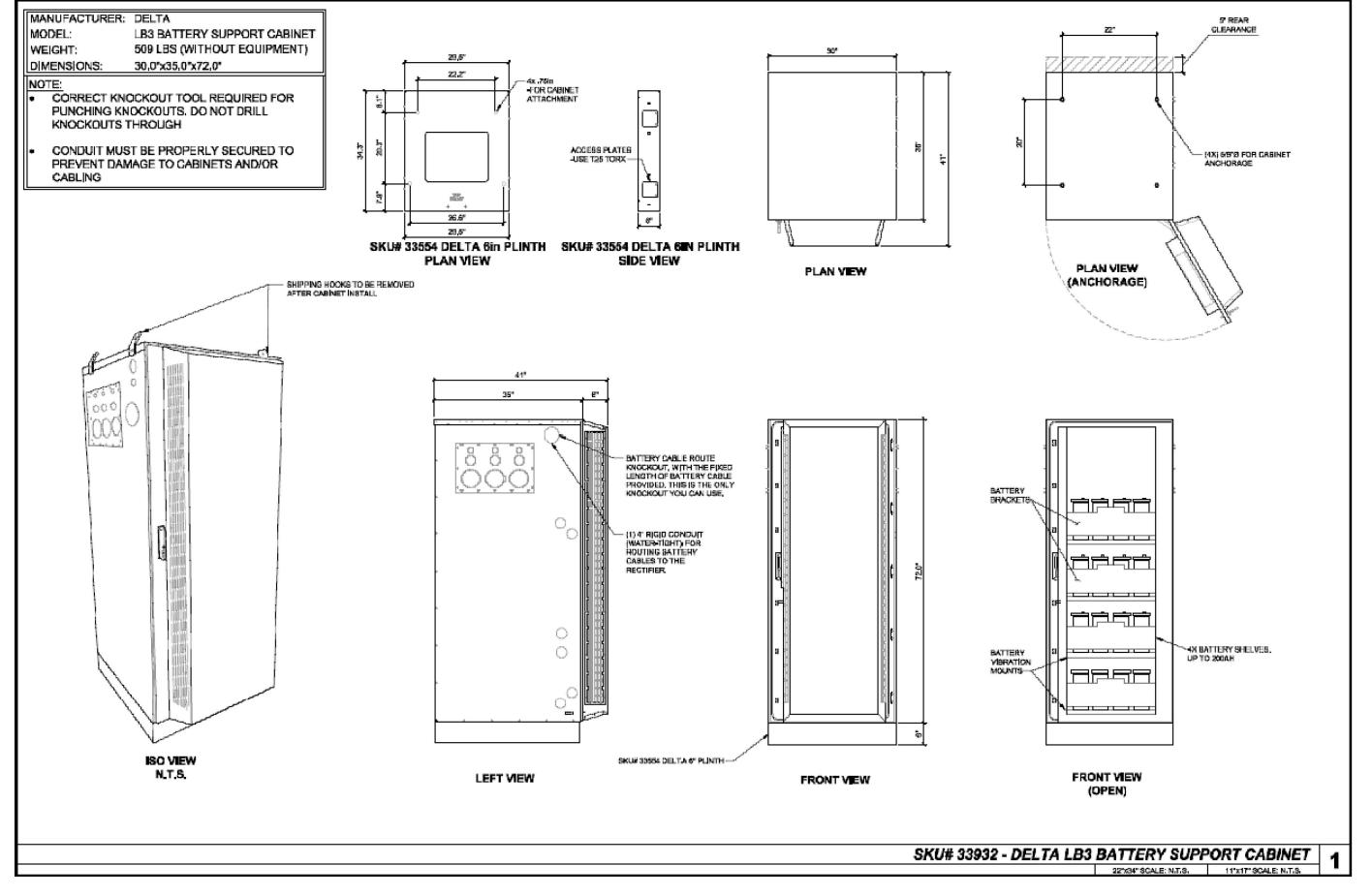
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PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

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> EQUIPMENT SPEC SHEET

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SHEET TITLE
EQUIPMENT
SPEC SHEET

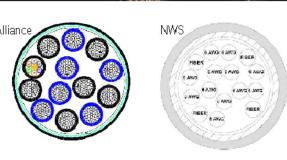
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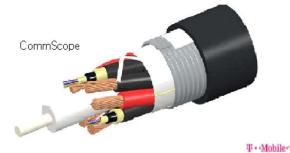
Trunk Cable General Specifications (6AWG)>250'

T-Mobile Internal

Characteristics	Alliance	CommScope	NWS
Outer Diam.	1.46"	1.55"	1.48"
Weight	1.61 lb/ft	1.71 lb/ft	1.6 1 lb/ft
Min. Bend Rad	14.6"	18.6"	21.5"
DC Conductors	12×6AWG	12x6AWG	12×6AWG
Armor	Corrugated Cu	Corrugated Al	Cu tape, PVC
Conductor Termination	None	None	None
Single-Mode Fibers	48	48	48
Fiber Termination	LC pair	LC pair	LC pair

Slide / 13





Characteristics	Alliance	CommScope	NWS
Dimensions, in.	9.3x14.9x5.8	6.7x16.9x4.7	10.2×16.0×3.2
Weight	1.61 lb/ft	0.970 lb/ft	1.61 <u>lb/ft</u>
Port Interface	Senko U	Senko U	Senko U
Hybrid Ports	12	12	12
Conductor Termination	None	None	None
Single Mode Fibers	48	48	48
Fiber Termination	LC pair	LC pair	LC pair
Max RRU	12	12	12



Note: Permanently attached to trunk cable, not field removable.

Airscale Hybrid Jumper Trunk Cable (Raycap version shown) Bottom Junction Box shown)

Bottom Junction Box General Specifications

Characteristics	CommScope	Raycap
Dimensions	14"x16"x8"	14"x16"x8"
Weight	23.5 lb	21.9 lb
OVP, IEC 61643-1	24"	Class I SPD (3)
UL Rating		1449, 4 th Ed.
OVP Monitoring	Dry contact	Dry contact
Fiber Patch Panel	24 LC pairs	24 LC pairs
Environmental Rating	IP67	IP66
Operating Temperature	-40 °C to +75 °C	-40 °C to +80 °C

Slide / 16

OVPs Fiber Patch Panel

T-Mobile Internal

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> EQUIPMENT SPEC SHEET

SHEET NUMBER

AirScale Dual RRH 4T4R B12/71 240W AHLOA



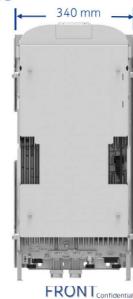
1 © Nokia 2017 Confidential

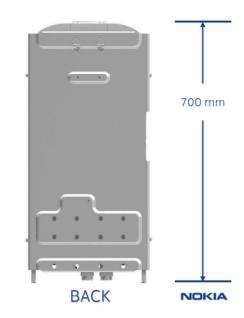
Product Code: 474331A			
Supported Frequency bands	3GFP Band 12/71		
Frequencies	Band 12 adjusted: UL 698 - 716 MHz, DL 728 - 746 MHz Band 71: UL 663 MHz - 698 MHz, DL 617 MHz - 652 MHz		
Number of TX/RX paths/pipes	4 pipes; 2T2R, 2T4R, 4T4R for both bands		
Instantaneous Bandwidth IBW	17 MHz for B12 and 35MHz for B71 1 MHz below B12 NB IoT future use		
Occupied Bandwidth OBW	UL 53MHz contiguous DL B12 17MHz + 1 MHz NB IoT future use; B71 35MHz		
Output Power	60W per TX shared between bands		
Supply Voltage / Range	DC-48 V / -36 V to -60 V		
Typical Power Consumption	64CW [ETSI Busy Hour Load at 4TX@60W		
	45CW [ETSI Busy Hour Load at 4TX@20W		
Antenna Ports	4 ports, 4.3-10+		
Optical Ports	2 x CPRI 9.8 Gbps		
ALD Control Interfaces	AISG3.0 and RET (DC on ANT1 & ANT3)		
Other Interfaces	External Alarm MDR-26 (4 inputs, 1 Output) DC Circular Power Connector		
Physical	560 mm x 308 mm x 189 mm Approximately 38kg with no covers or brackets		
Operating Temperature Range	-40°€ to 55°€ (with no solar load)		
Surge Protection	Class II 5A		
Installation Options	Pole, Wall, Book Mount		

Full Dimensions of AHFIG

Preliminary Values







FFVV-65C-R3-V1

8-port sector antenna, 4x 617-894 and 4x 1695–2690 MHz, 65° HPBW, 3x RET



General Specifications

 Antenna Type
 Sector

 Band
 Multiband

 Color
 Light gray

 Effective Projective Area (EPA), frontal
 0.99 m² | 10.656 ft²

 Effective Projective Area (EPA), lateral
 0.33 m² | 3.552 ft²

nding Type RF connector inner conductor and body grounded to reflector and

mounting bracket

 formance Note
 Outdoor usage

 ome Material
 Fiberglass, UV resistant

 iator Material
 Low loss circuit board

 Reflector Material
 Aluminum

 RF Connector Interface
 4.3-10 Female

 RF Connector Location
 Bottom

 RF Connector Quantity, high band
 4

 RF Connector Quantity, low band
 4

 RF Connector Quantity, total
 8

 REMOTE Electrical Tilt (RET) Information, General

remote Electrical Tilt (NET) imormation, derietal

RET Interface 8-pin DIN Female | 8-pin DIN Male

RET Interface, quantity 1 female | 1 male

Dimensions

 Width
 640 mm | 25.197 in

 Depth
 235 mm | 9.252 in

age 1 of 5

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AEHC AirScale MAA 64T64R 192AE n41 240W

Preliminary Technical datasheet

Specification	3GPP/FCC compliant, TDD
Frequency range	2496 - 2690 MHz
Max. supported modulation	256 QAM
Number of TX/RX paths	64T / 64R
MIMO streams	16
Instantaneous bandwidth IBW	194 MHz
Occupied bandwidth OBW	194 MHz
Total average EIRP	79.3 dBm
Max. output power per TRX	3.75 W / TRX (240 W total)
Antenna configuration	12 rows, 8 columns, 2 (±45° X-polarized)
Max. Antenna gain	25.5dBi
Horizontal beamwidth	15° (boresight)
Vertical beamwidth	6° (boresight)
Horizontal coverage angle	±45° (3 dB), ±60° (5 dB)
Vertical steering angle	±6°
Dimensions	TBD:900 mm (H) x 580 mm (W) x 210 mm (D)
Volume /Windward area	TBD:<110 L /<0.6m2
Weight	<45kg (without mounting brackets)
Supply voltage / Connector type	DC -40.5 V57 V / 2 pole connector
Power consumption	900 W typical (75% DL duty cycle, 30% RF load) 1300 W max (75% DL duty cycle, 100% RF load)



Optical ports	4 x SFP28, 10/25GE eCPRI (with R2CT)
Other interfaces / Connector type	Control AISG RF monitor port / SMA Female External Alarms / MDR26 status LED
Operational temperature range	-40 °C +55 °C
Cooling	Natural convection cooling
ngress protection class	IP65
nstallation options	Pole / Wall, ± 5° vertical adjustment
Surge protection	Class II 20 kA

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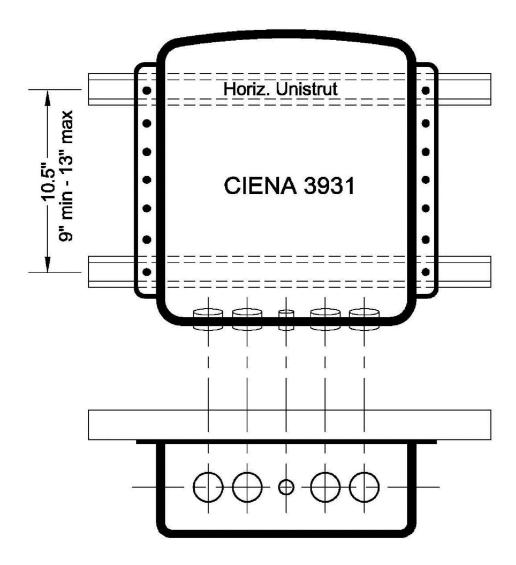
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PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

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SHEET TITLE
EQUIPMENT
SPEC SHEET

SHEET NUMB



Note: If horizontal Unistrut distance exceeds 13", the Ciena 3931 may be mounted on an H-Frame.

System Weight

Before you start, ensure that the mounting surface is capable of supporting the weight of the system. The weight of the various components of the 3931 is described in 39XX/51XX Product Fundamentals. Table 2-1 summarizes the weight of the mounting kits.

Table 2-1 Mounting System Weight Summary

Component	Weight (lbs)	Weight (kg)
H-Frame Mounting Kit	3.90	1.77
Pole Mount Kit	9.77	4.43
3931 (with all internal components)	28.5	12.96

Chassis Size

The size of the 3931 enclosure and attached mounting bracket are summarized in Table 2-2.

Table 2-2 3931 Dimension Summary

Dimension	Size (inches)	Size (cm)
Width	16.8	42.67
Height	17	43.18
Depth	7	17.78
Door clearance	17.5	44.45

Note: The chassis should be mounted a minimum of 2 feet 6 inches (76.2 cm) above grade.

Mounting Height Requirement

The unit should be installed so that the bottom of the 3931 is at least 2 feet 6 inches (76.2 cm) above grade.





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EQUIPMENT SPEC SHEET

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MOUNT ANALYSIS IS BY OTHERS NO NEW EQUIPMENT TO BE INSTALLED WITHOUT THE APPROVAL OF A STRUCTURAL

MC-RM1030-3



Universal Ring Mount, 10 in to 30 in OD

Product Classification

Product Type Universal ring mount

General Specifications

Mounting Monopole, 254-762 mm (10-30 in) OD

Pipe, quantity Sectors, quantity

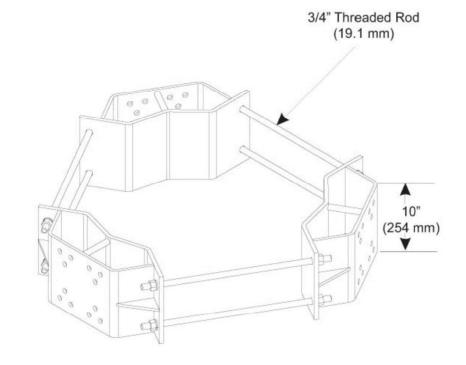
Dimensions

254 mm | 10 in Height 152.4 mm | 6 in Length Mounting Diameter, maximum 762 mm | 30 in Mounting Diameter, minimum 254 mm | 10 in **Pipe Outer Diameter** 0 mm | 0 in

Mounting Circumference, maximum 2,392.68 mm | 94.2 in **Mounting Circumference, minimum** 797.56 mm | 31.4 in

MC-RM1030-3

Outline Drawing



Material Specifications

Material Type Hot dip galvanized steel

Mechanical Specifications

Wind Rating 140 mph (BWS) at 150 ft AGL | 160 mph (3-second gust) at 150 ft AGL using Exposure D

Wind Rating Criteria Four 72 in x 8 in panel antennas per sector

Wind Rating Test Method TIA/EIA-222

Packaging and Weights

Included Mount | Threaded rod

Packaging quantity

Weight, net 86.319 kg | 190.3 lb

Page 2 of 3

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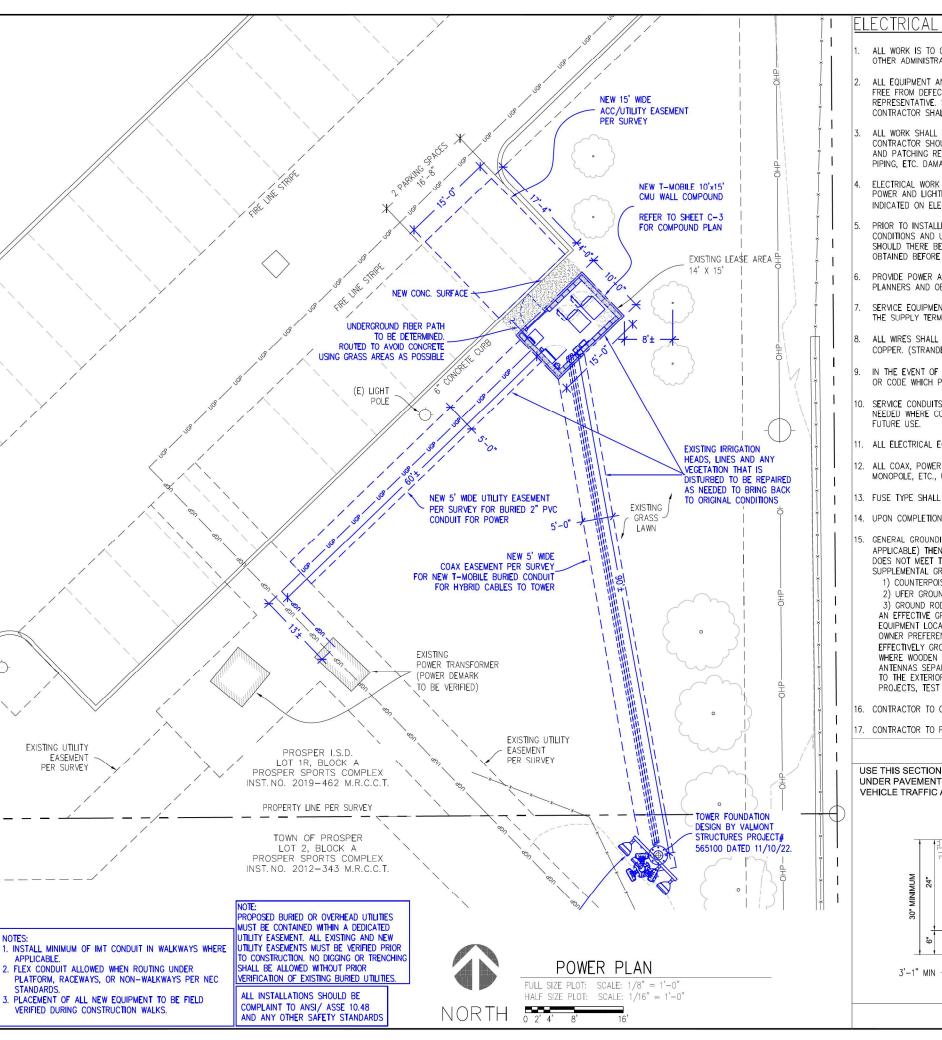
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ANTENNA MOUNT **SPECIFICATION**

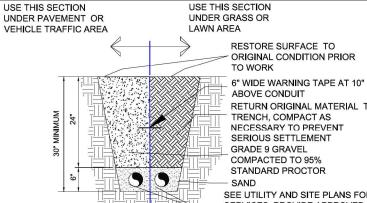
Page 1 of 3



ELECTRICAL NOTES

- ALL WORK IS TO COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.) AND ANY LOCAL ORDINANCES, CODES, AND ALL OTHER ADMINISTRATIVE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
- ALL EQUIPMENT AND MATERIAL FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE UNDERWRITERS LABORATORIES (U.L.) LISTED, NEW FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER
- ALL WORK SHALL BE EXECUTED IN A WORKMAN LIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED. CONTRACTOR SHOULD AVOID DAMAGE TO EXISTING UTILITIES WHEREVER POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, AND SHALL RESTORE ALL EXISTING LANDSCAPING, SPRINKLER SYSTEMS, CONDUITS, WIRING, PIPING, ETC. DAMAGED BY THE ELECTRICAL WORK TO MATCH EXISTING CONDITIONS.
- ELECTRICAL WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE ELECTRICAL POWER AND LIGHTING SYSTEMS, TELEPHONE AND COMMUNICATION SYSTEMS, PANEL BOARDS, CONDUIT, CONTROL WIRING, GROUNDING, ETC. AS INDICATED ON ELECTRICAL DRAWINGS AND/OR AS REQUIRED BY GOVERNING CODES.
- PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY EXISTING SITE LOCATIONS AND CONDITIONS AND UTILITY SERVICE REQUIREMENTS OF THE JOB, AND BY REFERENCE TO ENGINEERING AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTION OR PROBLEM CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
- PROVIDE POWER AND TELEPHONE TO SERVICE POINTS PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL CONTACT UTILITY SERVICE PLANNERS AND OBTAIN ALL SERVICE REQUIREMENTS AND INCLUDE COSTS FOR SUCH IN THEIR BID.
- SERVICE EQUIPMENT SHALL HAVE A SHORT CIRCUIT WITHSTAND RATING EQUAL TO OR EXCEEDING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SUPPLY TERMINAL ON THE UTILITY TRANSFORMER SECONDARY, THE INSULATION SHALL BE FREE FROM ANY SHORT CIRCUITS AND GROUNDS
- ALL WRES SHALL BE STRANDED COPPER WITH THHN/THWN AND 600 VOLTS INSULATION. ALL GROUND CONDUCTORS TO BE PROPERLY SIZED COPPER. (STRANDED OR SOLID).
- IN THE EVENT OF ANY CONFLICT OR INCONSISTENCY BETWEEN ITEMS SHOWN ON THE PLANS AND/OR SPECIFICATIONS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE HIGHEST STANDARD OF PERFORMANCE SHALL PREVAIL.
- SERVICE CONDUITS SHALL HAVE NO MORE THAN (2) -90° BENDS IN ANY SINGLE RUN. THE CONTRACTOR SHALL PROVIDE PULL BOXES AS NEEDED WHERE CONDUIT REQUIREMENTS EXCEED THESE CONDITIONS. PULL WIRES AND CAPS SHALL BE PROVIDED AT ALL SPARE CONDUITS FOR
- ALL ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO WITHSTAND 100 M.P.H. WIND SPEED AND DESIGNED FOR OUTDOOR EXPOSURE.
- ALL COAX, POWER AND TELEPHONE SYSTEM CONDUITS SHALL HAVE A MINIMUM 24" SCH. 80 PVC RADIUS SWEEPS TO EQUIPMENT, PULLBOXES, MONOPOLE, ETC., UNLESS OTHERWISE NOTED, OR AS REQUIRED BY UTILITY COMPANIES
- 13. FUSE TYPE SHALL BE BUSSMAN RKI LOW PEAK FUSE (LPU-RK-100).
- 14. UPON COMPLETION OF THE JOB, THE CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE OWNER
- CENERAL GROUNDING CRITERIA 1ST STEP: GROUND TO EXISTING BUILDING STRUCTURAL STEEL AND TO THE EXISTING COLD WATER LINE. (WHER APPLICABLE) THEN TEST GROUNDING RESISTANCE TO WITHIN 1 TO 5 OHMS OVERALL GROUND RESISTANCE. WHERE THE EFFECTIVE RESISTANCE DOES NOT MEET THIS CRITERIA, PROVIDE SUPPLEMENTAL GROUNDING AND RE-TEST UNTIL GROUND RESISTANCE FALLS BELOW THIS LEVEL. SUPPLEMENTAL GROUND MAY CONSIST OF ONE OR MORE OF THE FOLLOWING:
 - 1) COUNTERPOISE,
 - 2) UFER GROUND,
 - 3) GROUND ROD AND/OR GROUND WELL IN EXTREMELY ADVERSE SOIL CONDITIONS. WHERE THE EXISTING BUILDING STEEL DOES NOT PROVIDE AN EFFECTIVE GROUND RESISTANCE, THEN THE CONTRACTOR SHALL PROVIDE A SEPARATE GROUND CONDUCTOR FROM ROOF MOUNTED BTS EQUIPMENT LOCATIONS EITHER DOWN THROUGH THE INSIDE OF THE BUILDING OR DOWN THE OUTSIDE OF THE BUILDING, DEPENDING UPON OWNER PREFERENCE. WHERE THE GROUND CONDUCTOR FROM THE ROOF MOUNTED EQUIPMENT IS ROUTED IN CONDUIT, THE CONDUIT SHALL BE EFFECTIVELY GROUNDED TO THE GROUND CONDUCTOR AT BOTH ENDS OF THE CONDUIT. (MONOPOLE INSTALLATIONS): FOR INSTALLATIONS WHERE WOODEN STRUCTURES, TOWERS, CONCRETE SILOS ETC. ARE ENCOUNTERED A SEPARATE DOWNLEAD SHALL BE PROVIDED FROM THE 3 ANTENNAS SEPARATED BY A MINIMUM OF 12 INCHES FROM THE COAXIAL CABLES. THE GROUND CONDUCTOR SHALL BE SECURELY FASTENED TO THE EXTERIOR OF OUTSIDE STRUCTURES WITH NONMETALLIC GROUND STRAPS EVERY 10 FEET. AGAIN, AS FOR TENANT IMPROVEMENT PROJECTS, TEST THE GROUND RESISTANCE FOR MONOPOLE INSTALLATIONS AND PROCEED PER THE ABOVE STEPS.
- 16. CONTRACTOR TO COLOR PHASE CONDUCTORS BLACK (B PHASE), RED (A PHASE), WHITE (NEUTRAL), AND GREEN (GROUND).
- 17. CONTRACTOR TO PROVIDE GUTTER TAP.





ORIGINAL CONDITION PRIOR

RETURN ORIGINAL MATERIAL TO

SEE UTILITY AND SITE PLANS FOR NEW ELECTRICAL AND TELEPHONE SERVICES. PROVIDE APPROVED PULL BOXES AS REQUIRED AND COORDINATE INSTALLATION WITH ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH MULE TAPE (TYP)

BURIED CONDUIT DETAILS

E BRIDGES CAMPUS WARREN PARKWAY RISCO, TX 75034 ICE: (972) 464-3510 7668 WARREN P, FRISCO, TX 7 OFFICE: (972) 4 DUKE



600 E. JOHN IRVING. TX 75062 PHONE: 972-717-78

ACGI NO: 21-0860

DRAWN BY: DR/TS

CHECKED BY:

REVISIONS NO DATE DESCRIPTION BY				
Α	01/10/23	PRELIM CD	DR	
0	01/24/23	FINAL CD	TS	



9221 LYNDON B JOHNSON FWY FAX: 866-364-8375 WWW.ALLPROCGI.COM FIRM NO. F-8242



DA03931D

PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE

POWER PLAN

3

2

- 1. ALL WORK IS TO COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.) AND ANY LOCAL ORDINANCES, CODES, AND ALL OTHER ADMINISTRATIVE AUTHORITIES HAVING SURPRISHED. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
- 2. ALL EQUIPMENT AND MATERIAL FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE UNDERWRITERS LABORATORIES (U.L.) LISTED, NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER
- 3. ALL WORK SHALL BE EXECUTED IN A WORKMAN LIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED. CONTRACTOR SHOULD AVOID DAMAGE TO EXISTING UTILITIES WHEREVER POSSIBLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, AND SHALL RESTORE ALL EXISTING LANDSCAPING. SPRINKLER SYSTEMS. CONDUITS. WRING, PIPING, ETC. DAMAGED BY THE ELECTRICAL WORK TO MATCH EXISTING CONDITIONS.
- 4. ELECTRICAL WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE ELECTRICAL POWER AND LIGHTING SYSTEMS, TELEPHONE AND COMMUNICATION SYSTEMS, PANEL BOARDS, CONDUIT, CONTROL WIRING, GROUNDING, ETC. AS INDICATED ON ELECTRICAL DRAWINGS AND/OR AS REQUIRED BY GOVERNING CODES.
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- 6. PROVIDE POWER AND TELEPHONE TO SERVICE POINTS PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL CONTACT UTILITY SERVICE PLANNERS AND OBTAIN ALL SERVICE REQUIREMENTS AND INCLUDE COSTS FOR SUCH IN THEIR BID.
- 7. SERVICE EQUIPMENT SHALL HAVE A SHORT CIRCUIT WITHSTAND RATING EQUAL TO OR EXCEEDING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SUPPLY TERMINAL ON THE UTILITY TRANSFORMER SECONDARY, THE INSULATION SHALL BE FREE FROM ANY SHORT CIRCUITS AND GROUNDS.
- 8. ALL WIRES SHALL BE STRANDED COPPER WITH THHN/THWN AND 600 VOLTS INSULATION. ALL GROUND CONDUCTORS TO BE PROPERLY SIZED COPPER. (STRANDED OR SOLID).
- 9. IN THE EVENT OF ANY CONFLICT OR INCONSISTENCY BETWEEN ITEMS SHOWN ON THE PLANS AND/OR SPECIFICATIONS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE HIGHEST STANDARD OF PERFORMANCE SHALL PREVAIL.
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- 11. ALL ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO WITHSTAND 100 M.P.H. WIND SPEED AND DESIGNED FOR OUTDOOR EXPOSURE.
- 12. ALL COAX, POWER AND TELEPHONE SYSTEM CONDUITS SHALL HAVE A MINIMUM 24" SCH. 80 PVC RADIUS SWEEPS TO EQUIPMENT, PULLBOXES, MONOPOLE, ETC., UNLESS OTHERWISE NOTED, OR AS REQUIRED BY UTILITY COMPANIES.
- 13. FUSE TYPE SHALL BE BUSSMAN RKI LOW PEAK FUSE (LPU-RK-100).
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- 15. GENERAL GROUNDING CRITERIA 1ST STEP: GROUND TO EXISTING BUILDING STRUCTURAL STEEL AND TO THE EXISTING COLD WATER LINE. (WHERE APPLICABLE) THEN TEST GROUNDING RESISTANCE TO WITHIN 1 TO 5 OHMS OVERALL GROUND RESISTANCE. WHERE THE EFFECTIVE RESISTANCE DOES NOT MEET THIS CRITERIA, PROVIDE SUPPLEMENTAL GROUNDING AND RE—TEST UNTIL GROUND RESISTANCE FALLS BELOW THIS LEVEL. SUPPLEMENTAL GROUND MAY CONSIST OF ONE OR MORE OF THE FOLLOWING:
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- 16. CONTRACTOR TO COLOR PHASE CONDUCTORS BLACK (B PHASE), RED (A PHASE), WHITE (NEUTRAL), AND GREEN (GROUND).
- 17. CONTRACTOR TO PROVIDE GUTTER TAP.

NOTES:

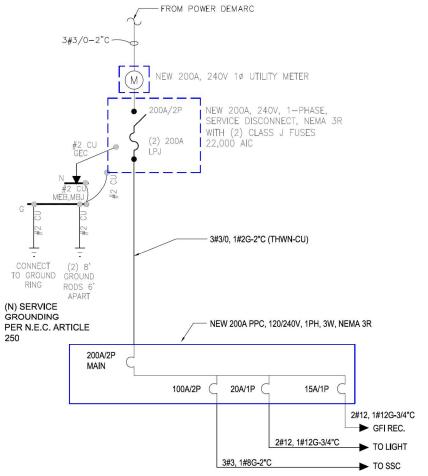
- 1. ALL DC POWER CONDUCTORS MUST MEET LDO RATING.
- 2. CONDUCTORS USED MUST BE SIZED APPROPRIATELY FOR BREAKERS TO BE INSTALLED.

ELECTRIC LOAD SUMMARY

AREA OF SPACE (164) SF

SERVICE VOLTAGE 120/240 V 1Ø

	CONNECTED LOAD		DEMAND FACTOR	DEMAND	D LOAD	
	KVA	AMPS	TACTOR	KVA	AMPS	
LIGHTING (175W HPS)	0.57	2.38	1.0	0.57	2.38	
RECEPTACLES (1)	1.06	4.42	1.0	1.06	4.42	
SITE SUPPORT CABINET	9.0	37.6	1.0	9.0	37.6	
TELCO PANEL	0.12	1.0	1.0	0.12	1.0	
DEMAND LOAD				19.75	45.4	
LIGHTING x 0.25				0.14	0.6	
TOTAL LOAD					46.0	
TOTAL SERVICE CAP.					200	



BOND NEUTRAL & GROUND BUS IN MAIN SERVICE DISCONNECT

DUKE BRIDGES CAMPUS
7668 WARREN PARKWAY
FRISCO, TX 75034
OFFICE: (972) 464-3510



SUITE 200 SAINT CHARLES, MO 63304 PHONE: 636-922-34(600 E. JOHN CARPENTER FWY. STE 357 IRVING, TX 75062 PHONE: 972-717-78(

ACGI NO: 21-0860

DRAWN BY: DR/TS

CHECKED BY: SZ

REVISIONS				
NO	DATE	DESCRIPTION	BY	
		PRELIM CD	DR	
0	01/24/23	FINAL CD	TS	



9221 LYNDON B JOHNSON FWY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGI.COM FIRM NO. F-8242



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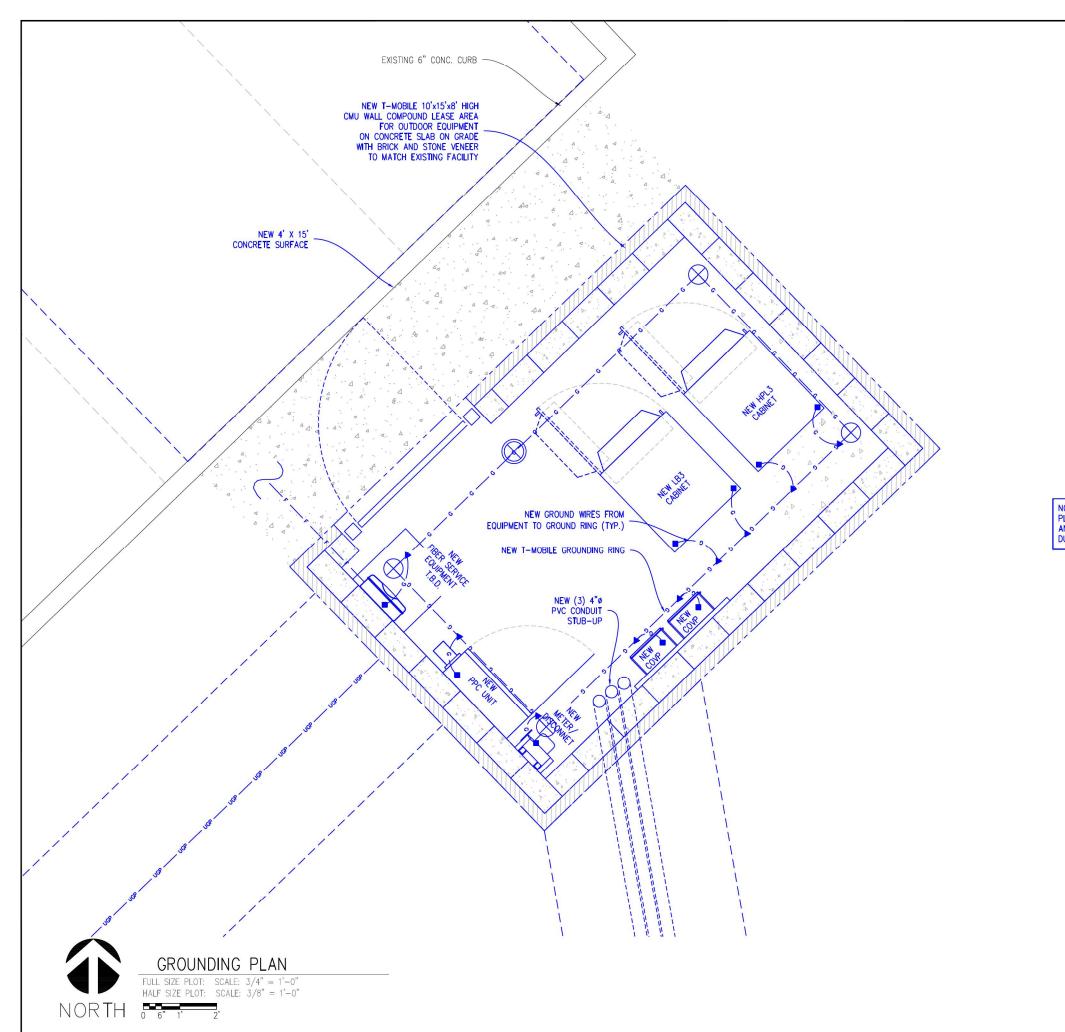
PISD SPORT COMPLEX
(STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE
ELECTRICAL
ONE—LINE DIAGRAM

SHEET NUMBER

E-2



GROUNDING PLAN LEGEND:

--- GROUND WIRE

— — — GROUND WIRE■ EXOTHERMIC WELD

 \otimes

COPPER GROUND ROD



TEST WELL

CAD WELD CONNECTIONS

NO.	DESCRIPTION	MOLD NO.	WELD NO.
1	#2 SOLID TO #2 SOLID	PTC-1T1T	65
2	#2 SOLID TO GROUND ROD	GTC-161T	90
3	#2 SOLID TO FENCE POST	VBC	

BURNDY CONNECTIONS

NO.	DESCRIPTION	PART NO.
4	#6 GREEN STRANDED 2-HOLE COMPRESSION LUG	
5	#2 SOLID TO POST	KC
6	BRAIDED STRAP BOLTED TO GATE POSTS	BD18G92

* CHECK WITH PROJECT MANAGER FOR CONNECTION TYPE IF TABS ARE NOT PRESENT ON MONOPOLE OR TOWER.

MECHANICAL CONNECTION

NOTE:
PLACEMENT OF ALL NEW EQUIPMENT
AND GROUNDING TO BE FIELD VERIFIED
DURING CONSTRUCTION WALKS

DUKE BRIDGES CAMPUS 7668 WARREN PARKWAY FRISCO, TX 75034 OFFICE: (972) 464-3510



ACGI NO: 21-0860

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PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

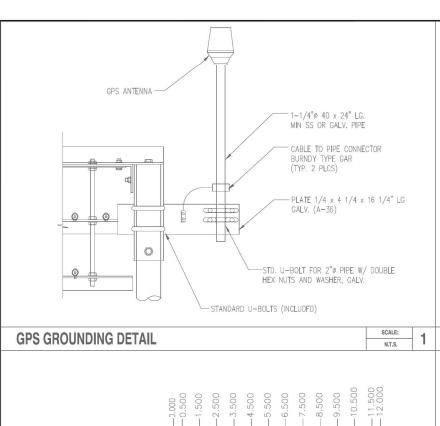
1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE

GROUNDING PLAN

SHEET NUMBER

G-1



MANUFACTURER: HARGER

-562¢ (4)

BRACKET

ANTENNA GROUNDING KIT

12" GROUND BAR

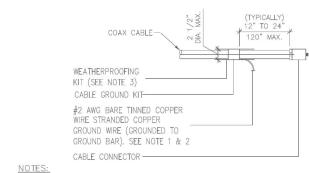
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+

1

SCALE:

N.T.S.

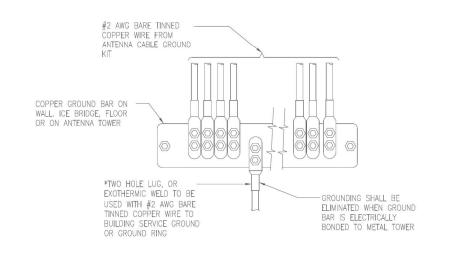


DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

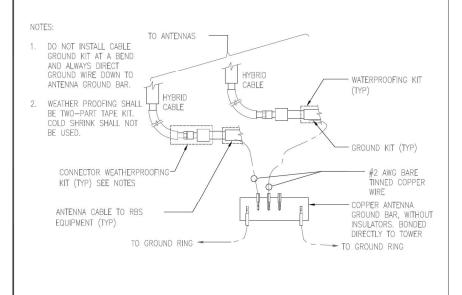
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE

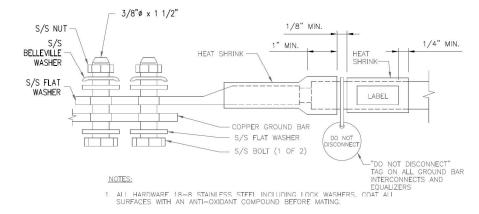
COAX CABLE GROUND KIT DETAIL

SCALE: 4 N.T.S.



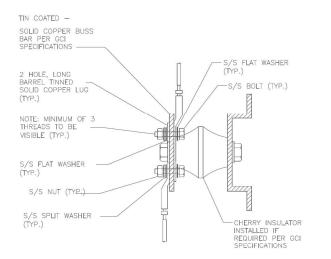
GROUND WIRE INSTALLATION





- 2. ALL HARDWARE SHALL BE S/S 3/8 INCH DIAMETER OR LARGER.
- FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.

THE DETAILS ON THIS SHEET APPLY ONLY AS CALLED OUT ON SITE PLANS OR SITE SPECIFIC DRAWINGS.



- 1) ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT
- 3) COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING. APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING.

(FRONT AND BACK ATTACHMENT)

GROUNDING - GENERAL LUG DETAIL

N.T.S.

ACGI NO:

DRAWN BY:

CHECKED BY:

DUKE BRIDGES CAMPUS 7668 WARREN PARKWAY FRISCO, TX 75034 0FFICE: (972) 464-3510

SUITE 200

SAINT CHARLES, MO 63304

600 E. JOHN

21-0860

DR/TS

DESCRIPTION

REVISIONS

A 01/10/23 PRELIM CD

0 01/24/23 FINAL CD

PHONE: 636-922-34

IRVING, TX 75062

PHONE: 972-717-78

9221 LYNDON B JOHNSON FWY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 WWW.ALLPROCGI.COM FIRM NO. F-8242

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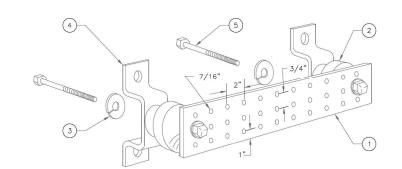
> DA03931D PISD SPORT COMPLEX

(STADIUM AND NATATORIUM)

1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE GROUNDING DETAILS

G-2



LEGEND

1— TINNED, SOLID COPPER GROUND BAR, SIZED TO ACCOMODATE ALL GROUNDING CONNECTIONS REQUIRED PLUS PROVIDE 50% SPARE CAPACITY. PROPOSEDTON INSTRUMENT CO. OR APPROVED EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.

2- INSULATORS, PROPOSEDTON INSTRUMENT CO. CAT. NO. 3061-4 OR APPROVED

EQUAL.
3— LOCKWASHERS, PROPOSEDTON INSTRUMENT CO. OR APPROVED EQUAL.
4— SUPPORT BRACKET. TYPE DEPENDENT ON SITE CONDITION. PROPOSEDTON INSTRUMENT CO. OR APPROVED EQUAL.
5— H.H.C.S. BOLTS, PROPOSEDTON INSTRUMENT CO. OR APPROVED EQUAL.
6— APPLY COPPER NO—OX TO EXPOSED AREA OF GROUND BAR.

3 TWO HOLE MECHANICAL LUG CONNECTION

SCALE:

N.T.S.

6 GROUND BAR

SCALE:

GENERAL NOTES

- 1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ACCEPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- 2. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 3. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.
- 4. WIRES AND CABLES FOR POWER AND LIGHTING SHALL BE COPPER WITH TYPE XHHW,THWN, OR THHN INSULATION. SOLID CONDUCTORS FOR #10 AWG AND SMALLER, STRANDED FOR LARGER THAN #10 AWG. MINIMUM SIZE #12 AWG.
- 5. WIRES AND CABLES FOR POWER SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT OR FLEXIBLE LIQUID TIGHT CONDUIT AS INDICATED ON DRAWING.
- 6. CONTRACTOR TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE RESPONSIBLE FOR SCHEDULING INSPECTIONS.
- 7. CONTRACTOR TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL AND COORDINATE WITH UTILITY COMPANIES SERVICE ENTRANCE REQUIREMENTS.
- 8. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- 9. GROUNDING CONNECTIONS SHALL BE MECHANICAL TYPE ("BURNDY" OR "COMPRESSION") FITTINGS FOR ALL CONNECTIONS.
- 10. GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH COAX CABLE GROUNDING KITS & INSTALL WEATHER PROOFING KIT AT EACH CONNECTION
- 11. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE, ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- 12. CONTRACTOR TO PROVIDE GROUND RING AS SHOWN ON GROUNDING SITE PLAN AND GROUNDING RISER DIAGRAM. CONTRACTOR SHALL TEST AND VERIFY THAT THE IMPEDANCE DOES NOT EXCEED 5 OHMS TO GROUND BY MEANS OF A BIDDLE-MEGGER TESTER. GROUNDING AND OTHER OPERATIONAL TESTING SHALL SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE.
- 13. CONTRACTOR TO PROVIDE TELEPHONE CONDUIT AS SHOWN ON PLANS
- 14. CONTRACTOR TO PROVIDE ELECTRIC CONDUIT AS SHOWN ON PLANS
- 15. NOTIFY LOCAL UTILITY SERVICE PRIOR TO ANY INSTALLATION.
- 16. ALL EQUIPMENT FURNISHED BY OTHERS SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY MIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH—IN OF CONDUIT AND WIRING TO AVOID CONFLICTS. WHERE APPLICABLE
- 17. GROUNDING CONDUCTORS SHALL BE COPPER ONLY. ABOVE GROUND EITHER SOLID OR STRANDED CONDUCTORS ARE PERMITTED. IGR AND ALL EXTERNAL CONDUCTORS (WITH THE EXCEPTION FOR GROUND WIRE BETWEEN THE TOP AND THE BOTTOM OF THE ANTENNA TOWER) MUST BE BARE. EQUIPMENT GROUND LEADS IN CABLE TRAYS MUST BE GREEN INSULATED.
- 18. UTILITY COMPANY COORDINATION: ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COST IN HIS BID

CONDUITS AND WIRING

1.WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR

2.UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE

3.RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.

4.PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WRING

5.PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.

COORDINATION WITH UTILITY COMPANY

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS.

LEGEND

	SAFETY DISCONNECT SWITCH, SIZED AS NOTED	А	AMPERE
	PANEL BOARD	V	VOLT
	FANELBOARD	W	WIRE
\bigcirc	KILOWATT HOUR METER	С	CONDUIT
T	TRANSFORMER	G	GROUND
		Р	POLE
	CIRCUIT BREAKER	SPGB	SURGE PROTECTOR GROUND BAR
2	LIGHTING FIXTURE, SIZE		(1/4"x2"x24")
_	AS NOTED	CGB	COLLECTOR GROUND BAR (1/4"x4"x12")
0000	COPPER GROUND BAR, SIZED AS NOTED	EGB	EXTERNAL GROUND BAR (1/4"x8"x24")
— E —	POWER WIRING, SIZED AS NOTED	MGB	MASTER GROUND BAR (1/4"x8"x24")
— T —	TELCO WIRING, SIZED AS NOTED	IGR	INTERNAL GROUND RING ("HALO" GROUND)
— G —	GROUND WIRING, SIZED AS	EGR	EXTERNAL GROUND RING
	NOTED	ACU	AIR CONDITIONER UNIT
		HWGC	HEAVY WALLED GALVANIZED CONDUIT

DUKE BRIDGES CAMPUS
7668 WARREN PARKWAY
FRISCO, TX 75034
OFFICE: (972) 464-3510



SUITE. 200 SAINT CHARLES, MO 63304 PHONE: 636-922-340 600 E. JOHN CARPENTER FWY. STE 357 IRVING, TX 75062 PHONE: 972-717-780

ACGI NO: 21-0860

DRAWN BY: DR/TS

CHECKED BY: SZ

NO	DATE	DESCRIPTION	BY
Α	01/10/23	PRELIM CD	DR
0	01/24/23	FINAL CD	TS



CONSULTING GROUP, INC.
9221 LYNDON B JOHNSON FWY
SUITE 204, DALLAS, TX 75243
PHONE: 972-231-8893
FAX: 866-364-8375
WWW.ALLPROCGI.COM
FIRM NO. F-8242



SCALE:

N.T.S.

SCALE:

N.T.S.

DA03931D

PISD SPORT COMPLEX (STADIUM AND NATATORIUM)

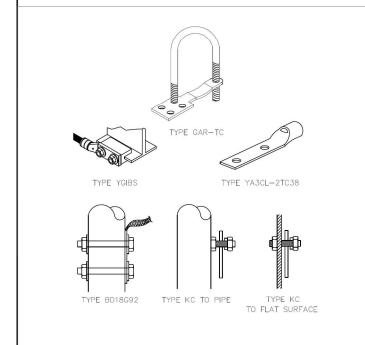
1240 W FRONTIER PKWY PROSPER, TX 75078 COLLIN COUNTY

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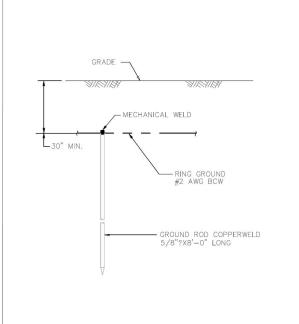
GROUNDING DETAILS

SHEET NUMBER

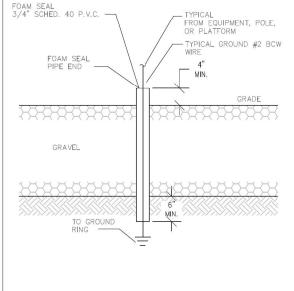
G-3



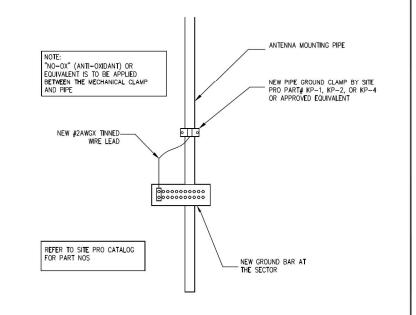
BURNDY DETAILS



GROUND ROD



2 GROUND WIRE SLEEVE

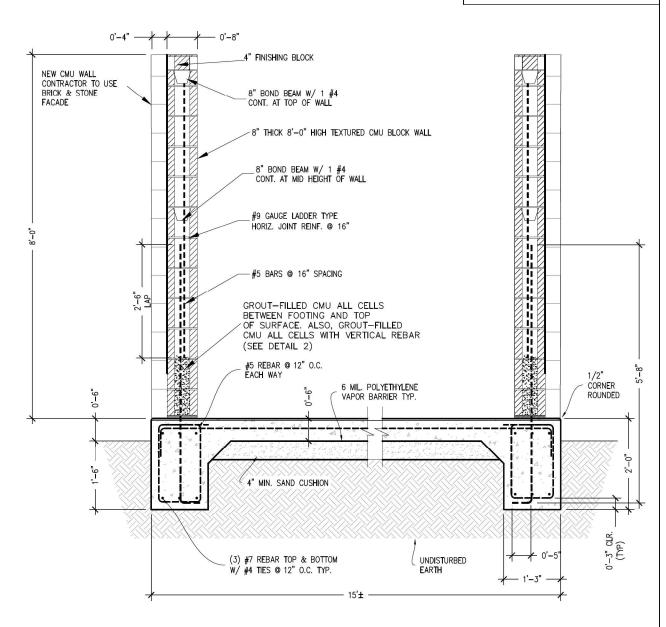


NOT USED

ANTENNA PIPE GROUNDING

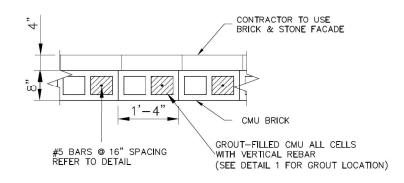
NOTES:

- 1. EXISTING CONDITIONS WILL BE CHECKED AND VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED AND CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER IMMEDIATELY.
- 2. "ALLPRO CONSULTING GROUP, INC." WAS NOT PROVIDED WITH A GEOTECHNICAL REPORT. FOUNDATIONS ARE DESIGNED FOR A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1500 PSF. IT IS RECOMMENDED THAT A GEOTECHNICAL INVESTIGATION BE COMPLETED PRIOR TO CONSTRUCTION.
- 3. DO NOT SCALE DRAWINGS.

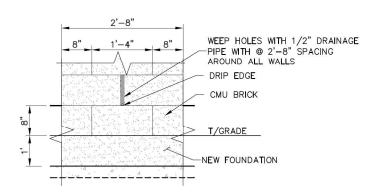


1) CMU WALL SECTION ON EXISTING FOOTAGE SIDE SCALE: 1/2"=1'-0"

1. ALL INSTALLATIONS SHALL BE IN COMPLIANCE WITH ANSI/ ASSE 10.48 AND ANY OTHER SAFETY STANDARDS.



REBAR W/ GROUT SPACING SCALE: 1/2"=1'-0"



3 WEEP HOLES ELEVATION SCALE: 1"=1'-0"



ACGI NO: 22-4294

DRAWN BY: SP

CHECKED BY: SZ

0 12/19/22 CMU WALL DESIGN





SITE ID: DA0931D SITE NAME: PISD SPORT COMPLEX

1240 FRONTIER PKWY PARK RD, PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE

CMU WALL DETAIL

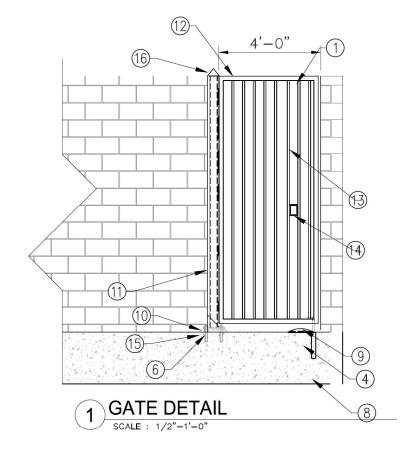
SHEET NUMBER

S-2

NOTES:

- 1. EXISTING CONDITIONS WILL BE CHECKED AND VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED AND CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER IMMEDIATELY.
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- 3. DO NOT SCALE DRAWINGS.

- 1. ALL INSTALLATIONS SHALL BE IN COMPLIANCE WITH ANSI/ ASSE. 10.48 AND ANY OTHER SAFETY STANDARDS.
- 2. GENERAL CONTRACTOR TO VERIFY WITH GENERATOR MANUFACTURER FOR FIT PRIOR TO POURING CONCRETE AND INSTALLATION.
- 3. GENERATOR DESIGN AND DRAWINGS BY OTHERS

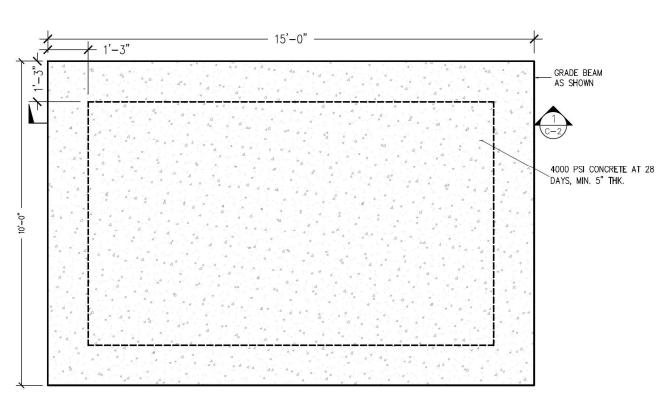


REFERENCE NOTES:

- 1. MANUFACTURER TO PROVIDE RUST INHIBITIVE PAINT OR GALVANIZATION
- 2. EXISTING SITE MATERIAL.
- 3. WELD ON HEAVY DUTY HINGE (4) PER LENGTH OF TUBE WITH FINISH TO MATCH FRAME.
- 4. (1) GATE STOP
- 5. HSS4x4x3/8 FINISH TO MATCH GATE FRAME. WELDED TO BASEPLATE W/ 3/16" WELD ALL AROUND.
- 6. 3/4" BASEPLATE W/ (4) 3/4" DIAMETER BOLTS EMBEDDED 4 1/2" INTO FOUNDATION W/ HILTI HY200 ADHESIVE ANCHOR. 1 1/2" 5000 PSI NON SHRINK GROUT BELOW.
- 7. 1/2" CAP PLATE. WELD TO TOP OF POST W/ 3/16" WELD ALL AROUND.
- 8. GATE STOP SUPPORT 12" DIAMETER BY 2'-0" DEEP 3000 PSI CONCRETE W/ MUSHROOM GATE STOP EMBEDDED ON TOP OF CONCRETE.
- 9. REMOVABLE 1/2" DIAMETER BENT BAR WITH CASING EMBEDDED IN GATE STOP CONCRETE.
- 10. BASE BLOCK TRIMMED AROUND BASE AND GROUTED FROM TOP W/ 5000 PSI NON SHRINK GROUT OVER BASEPLATE.
- 11. LAST TWO CELLS FULLY GROUTED. ONE CELL AWAY FROM END TO BE FULLY GROUTED W/ (2) #5 BARS.
- 12. 2 SQ. IN. STEEL FRAME ALL AROUND.
- 13. 1 SQ. IN. STEEL PICKETS @ 4" O.C.
- 14. KNOX BOX
- 15. 13" TALL BY 12" CONCRETE VERTICAL EXTENSION FROM FOOTING FOR STEEL GATE BASE PLATE ANCHOR

FOUNDATION NOTES:

- 1. COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4000—PSI AT 28—DAY CURE, AND SHALL MEET SPECIFICATION FOR READY—MIXED CONCRETE (ASTM C94—96). CONCRETE SHALL BE PLACED AND CURED AS PER ACI—318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- 2. CONCRETE SLUMP SHALL RANGE BETWEEN 4 INCHES TO 6 INCHES.
- 3. ALL CONCRETE WORK SHALL CONFORM TO ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- 4. THE SURFACE, OVER WHICH THE CONCRETE WILL BE POURED, SHALL BE CLEAN OF LOOSE MATERIAL AND LEVELED PRIOR TO CONCRETE PLACEMENT.
- 5. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS AND OTHER OCCURRENCES THAT MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- 6. MECHANICALLY VIBRATE CONCRETE, PARTICULARLY WHEN POURED IN DIFFERENT LIFTS, TO ENSURE CONSOLIDATION AND TO AVOID JOINTS.
- 7. ALL REINFORCING STEEL BARS SHALL BE DOMESTIC, NEW BILLET STEEL, ASTM A-615, GRADE 60. REINFORCING SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH ACI 315—LATEST EDITION "MANUAL OF STANDARD FOR DETAILING REINFORCED CONCRETE".
- 8. ALL LOAD BEARING FOOTING SHALL BEAR ON TOP OF COMPACTED SOIL
- 9. WELDING OF REINFORCING BARS AND DOWEL BARS IS PROHIBITED UNLESS OTHERWISE APPROVED BY ENGINEER.
- 10. PRIOR TO THE EXCAVATION, CHECK AREA FOR LOCATION OF UNDERGROUND PIPES, CABLES, ETC.
- 11. ALLOWABLE SOIL BEARING PRESSURE SHALL BE 1500 PSF MINIMUM. IF DIFFERENT, PLEASE NOTIFY ALLPRO CONSULTING GROUP, INC FOR A REDESIGN.
- 12. SOIL DATA AS PER PRESUMPTIVE SOIL PARAMETERS FROM IBC 2015 CODE, TABLE 1806.2.



CONCRETE FOUNDATION PLAN VIEW

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

DUKE BRIDGES CAMPUS
7668 WARREN PARKWAY
FRISCO, TX 75034
OFFICE: (972) 464-3510

4CGI	NO:	22-4294

DRAWN BY: SP

CHECKED BY: SZ

0	12/19/22	CMU	WALL	DESIGN
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SITE ID: DA0931D SITE NAME: PISD SPORT COMPLEX

1240 FRONTIER PKWY PARK RD, PROSPER, TX 75078 COLLIN COUNTY

SHEET TITLE

PAD DETAILS

SHEET NUMBER

S-3

MASONRY

- 1. MASONRY STRENGTH
- A. HOLLOW CONCRETE MASONRY UNITS: GRADE N. LIGHTWEIGHT WITH A COMPRESSIVE STRENGTH OF F = 1500 PSI ON THE NET AREA.
- B. GROUT: 2000 PSI, MINIMUM 28 DAY COMPRESSIVE STRENGTH. VIBRATE GROUT IMMEDIATELY AFTER POURING AND AGAIN AFTER 5 MINUTES. GROUT SHALL CONFORM TO TO ASTM C476 AND UBC 2103. MIX GROUT FOR AT LEAST FIVE MINUTES AND UNTIL MIX HAS BEEN ATTAINED. GROUT SHALL HAVE SUFFICIENT WATER ADDED TO PRODUCE A CONSISTENCY FOR POURING WITHOUT SEGREGATION USE GROUT WITHIN 1.5 HOURS OF ADDITION OF MIXING WATER.
- C. MORTAR: CEMENT-LIME TYPES, 1800 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH. CONFORM TO UBC 2103.
- D. 4,000 PSI STRENGTH CONCRETE AT 28 DAY 3" TO 5" SLUMP.

LAY UNITS IN RUNNING BOND. CORNERS SHALL HAVE A STANDARD BOND BY OVER- LAPPING UNITS.

MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS SHALL BE 4'-0".

TIE VERTICAL REINFORCING AT EACH END OF BAR AND AT 4'-0" MAXIMUM VERTICAL SPACING USING SINGLE WIRE LOOP TYPE TIES AS MANUFACTURED BY A.A. WIRE PRODUCTS COMPANY OR APPROVED ALTERNATE COMPANY OR APPROVED ALTERNATE.

SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS.

GROUT SOLID ALL WALLS IN CONTACT WITH EARTH, RETAINING WALLS, STEM WALLS, AND AS NOTED ON DRAWINGS.

AS A STRUCTURAL ELEMENT.

- 8. PRIOR TO CROUTING, THE CROUT SPACE SHALL BE CLEAN FILLED WITH GROUT DO NOT SO THAT ALL SPACES TO BE CONTAIN MORTAR PROJECTIONS GREATER THAN 1/2 INCH. MORTAR DROPPINGS OR OTHER FOREIGN MATERIAL. SHALL BE PLACED SO THAT ALL SPACES DESIGNATED TO BE GROUTED SHALL BE FILLED WITH GROUT AND THE GROUT SHALL BE CONFINED TO THOSE SPECIFIC SPACES.
- 9. GROUT MATERIALS AND WATER CONTENT SHALL BE CONTROLLED TO PROVIDE ADEQUATE FLUIDITY PLACEMENT, WITHOUT SEGREGATION OF THE CONSTITUENTS, AND SHALL BE MIXED THOROUGHLY.
- 10. THE GROUTING OF ANY SECTION OF WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.
- 12. BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING ALL C.M.U. AT THE SAME ELEVATION AND WITH THE GROUT STOPPING A MORTAR DROPPINGS OR OTHER FOREIGN MATERIAL. GROUT SHALL BE PLACED SO THAT WHERE BOND BEAMS OCCUR. THE GROUT POUR SHALL BE STOPPED A MINIMUM OF 1/2 INCH BELOW THE TOP OF THE MASONRY.
- 13. SEGREGATION OF GROUT MATERIALS AND DAMAGE TO THE MASONRY SHALL BE AVOIDED DURING THE GROUTING PROCESS.
- 14. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12 INCHES IN HEIGHT WILL BE RECONSOLIDATED BY MECHANICAL VIBRATION TO WHERE BOND BEAMS OCCUR, THE GROUT POUR SHALL BE STOPPED A MINIMUM OF 1/2 MECHANICALLY VIBRATED OR PUDDLED AND RODDED WITH SMOOTH BAR.
- 15. GROUT SHALL NOT BE HANDLED NOR PUMPED UTILIZING ALUMINUM EQUIPMENT UNLESS IT CAN BE DEMONSTRATED WITH THE MATERIAL AND EQUIPMENT TO BE USED THAT THERE WILL BE GROUTED MASONRY SHALL BE CONSTRUCTED IN SUCH A NO DELETERIOUS EFFECT ON THE STRENGTH OF THE GROUT.

 MANNER THAT ALL ELEMENTS OF THE MASONRY ACT TOGETHER 16. PLACE #4 VERTICAL REINFORCEMENT @ EACH CORNER AND @ EACH SIDE OF AN OPENING



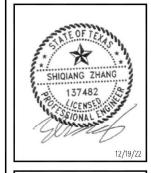
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DRAWN BY: SP

CHECKED BY: SZ

0	12/19/22	CMU WALL DESIGN
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SITE ID: DA0931D SITE NAME: PISD SPORT COMPLEX

1240 FRONTIER PKWY PARK RD, PROSPER, TX 75078 COLLIN COUNTY

> SHEET TITLE MASONRY NOTES

S-4